







**STATISTICAL APPENDICES  
TO  
ANNUAL REPORT  
OF THE  
PUBLIC HEALTH COMMISSIONER  
WITH THE GOVERNMENT OF INDIA  
FOR THE YEAR 1945**



PRINTED IN INDIA BY THE MANAGER  
GOVERNMENT OF INDIA PRESS SIMLA 1948

*Price : Rs. 2/8/- or 4s.*





## TABLE OF CONTENTS

Comments on Vital Statistical Trends in 1945 in British India . . . . .

Page  
1

### SECTION I

TABLE 1.—Mid-year estimated populations of Registration Areas by rural and urban and by sex during the year 1945 . . . . .	8
TABLE 2.—Births in rural and urban areas . . . . .	9
TABLE 3.—Deaths in rural and urban areas . . . . .	13
TABLE 4.—Total Births by months during the year 1945 . . . . .	16
TABLE 5.—Births by months in rural areas during the year 1945 . . . . .	17
TABLE 6.—Births by months in urban areas during the year 1945 . . . . .	18
TABLE 7.—Total Deaths by months during the year 1945 . . . . .	19
TABLE 8.—Deaths by months in rural areas during the year 1945 . . . . .	20
TABLE 9.—Deaths by months in urban areas during the year 1945 . . . . .	21
TABLE 10.—Total Deaths by age and sex during the year 1945 . . . . .	22
TABLE 11.—Deaths by age and sex in rural areas during the year 1945 . . . . .	24
TABLE 12.—Deaths by age and sex in urban areas during the year 1945 . . . . .	26
TABLE 13.—Infantile mortality in rural and urban areas . . . . .	28
TABLE 14.—Infantile mortality rate in certain towns in British India during the year 1945 . . . . .	31
TABLE 15.—Vital Statistics for Indian States during the year 1945 . . . . .	33

### SECTION II

TABLE 16.—Deaths and rates per mille from certain causes or groups of causes of mortality in rural and urban areas during the year 1945 . . . . .	36
TABLE 17.—Deaths and rates per mille from certain causes or groups of causes of mortality in rural and urban areas during the year 1945 . . . . .	42
TABLE 18.—Deaths from cholera by months and number of inoculations performed and villages infected during the year 1945 . . . . .	44
TABLE 19.—Deaths from smallpox by months and deaths in children during the year 1945 . . . . .	45
TABLE 20.—Deaths from plague by months and number of anti-plague inoculations performed during the year 1945 . . . . .	46
TABLE 21.—Deaths from fevers including malaria by months and reported malaria deaths in rural and urban areas during the year 1945 . . . . .	47
TABLE 22.—Deaths from dysentery and diarrhoea by months during the year 1945 . . . . .	48
TABLE 23.—Deaths from respiratory diseases by months and reported deaths from pulmonary tuberculosis during the year 1945 . . . . .	49
TABLE 24.—Patients treated for different kinds of tuberculosis in Hospitals and other institutions during the year 1945 . . . . .	50
TABLE 25.—Deaths and rate per mille from certain causes or groups of causes of mortality in Indian States during the year 1945 . . . . .	51
TABLE 26.—Distribution of quinine, cinchon febrifuge, totuquin and other cinchona alkaloids during the year 1945 . . . . .	53

### SECTION III

TABLE 27.—Maternal death rates per 1,000 of live and still births for certain towns in British India during the year 1945 . . . . .	58
TABLE 28.—Maternity and Child Welfare centres in rural and urban areas during the year 1945 . . . . .	61

### SECTION IV

TABLE 29.—Expenditure on Public Health by Central and Provincial Governments during 1945-46 . . . . .	62
TABLE 30.—Distribution of Health Services in rural and urban areas during the year 1945 . . . . .	63

### SECTION V

TABLE 31.—Vaccination statistics relating to British India during the year 1945 . . . . .	64
TABLE 32.—Number of towns and rural circles in the different provinces in which compulsory primary vaccination was in force during the year 1945 . . . . .	67

<b>TABLE 33.</b> —Number of towns and rural circles in the different provinces in which compulsory re-vaccination was in force during the year 1945 . . . . .	<b>PAGE</b> 68
<b>TABLE 34.</b> —Vaccination statistics relating to some Indian States during the year 1945 . . . . .	69

## SECTION VI

<b>TABLE 35.</b> —Number of towns having protected water supply during the year 1945 . . . . .	76
<b>TABLE 36.</b> —Expenditure on public health by municipalities during the year 1944-45 . . . . .	77
<b>TABLE 37.</b> —Expenditure on public health by district boards during the year 1944-45 . . . . .	78

## SECTION VII

<b>TABLE 38.</b> —Sickness and mortality of all classes of prisoners in district and central jails in India . . . . .	80
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## SECTION VIII

<b>A.</b> —Papers published in the Indian Journal of Medical Reserach . . . . .	85
<b>B.</b> —Papers published in the Indian Medical Gazette . . . . .	107
<b>C.</b> —Papers published in the Journal of the Malaria Institute of India . . . . .	145

## LIST OF ILLUSTRATIONS

	<b>Facing page</b>
<b>I.</b> —Birth Rates in Rural and Urban areas in 1941-45 in British Indian Provinces . . . . .	9
<b>II.</b> —Death Rates in Rural and Urban areas in 1941-45 in British Indian Provinces . . . . .	13
<b>III.</b> —Infantile mortality rates per mille of live births in British Indian Provinces in 1926-45 . . . . .	23
<b>IV.</b> —Death Rates per mille by causes in British India in 1941-45 . . . . .	36
<b>V.</b> —Cholera, Smallpox and Plague Death Rates per 100,000 population in British India in 1941-45 . . . . .	42
<b>VI.</b> —Monthly Cholera Mortality in British India in 1941-45 . . . . .	44
<b>VII.</b> —Monthly Smallpox Mortality in British India in 1941-45 . . . . .	45
<b>VIII.</b> —Monthly Plague Mortality in British India in 1941-45 . . . . .	46
<b>IX.</b> —Distribution of Cholera mortality in British India in 1945 . . . . .	44
<b>X.</b> —Distribution of Smallpox mortality in British India in 1945 . . . . .	45
<b>XI.</b> —Distribution of Plague mortality in British India in 1945 . . . . .	46
<b>XII.</b> —Monthly Death Rates per 100,000 population from Cholera in British Indian provinces heavily affected in 1945 . . . . .	44
<b>XIII.</b> —Monthly Death Rates per 100,000 population from Smallpox in British Indian provinces heavily affected in 1945 . . . . .	45
<b>XIV.</b> —Monthly Death Rates per 100,000 population from Plague in British Indian provinces heavily affected in 1945 . . . . .	46

## COMMENTS ON VITAL STATISTICAL TRENDS IN 1945 IN BRITISH INDIA

The main Vital Statistics for British India for 1945 together with comparative figures for other years are given below :—

	1945	1944	Median value for 1937-43
Mid year estimated population . . . . .	306,761,205	302,897,956	292,643,057*
Births { Number . . . . .	8,374,463	7,708,195	9,346,145
{ Rate per mille . . . . .	27·3	25·4	33·6
Deaths { Number . . . . .	6,608,726	7,307,131	6,336,313
{ Rate per mille . . . . .	21·5	24·1	21·3
Infant deaths . . . . .	1,263,967	1,305,333	1,483,338
Infantile death rate per 1,000 live births . . . . .	150·9	169·3	159·8

*Population.*—The midyear estimated populations of the British Indian provinces by rural and urban sections and by sex are given in Table 1. In making the estimates the simple Arithmetical Progression method has been adopted.

*Birth Rates.*—Tables 2, 4, 5 and 6 give details of births in rural and urban areas and births by months. It will be observed that in 1945 there were 8,374,463 total births in British India, of which 1,143,938 were recorded in the urban and 7,230,525 in the rural areas. The corresponding birth rates per mille for the total, rural and urban areas were 27·3, 27·1 and 28·7 respectively. These figures indicate that the tendency towards a falling birth rate noticeable particularly since 1941 may be lessening. During the quinquennium 1937-41, i.e., just before the years when the effect of war conditions in India began to be felt the maximum recorded total birth rate was 34·5 and the minimum was 32 per mille. In the years 1942 to 1944 it fell successively from 29·3 in 1942 to 25·9 in 1943 and 25·4 in 1944. In the year 1945 the birth rate increased by 1·9 per mille over the rate in 1944 but it did not reach the prewar level. The same features are shown by the birth rates of the urban and the rural areas. For the urban areas the maximum rate during the years 1937-1941 was 39·5 per mille and the minimum was 27·6. This declined to 25·3 in 1942, to 24·3 in 1943 but rose slightly to 25·0 in 1944. In 1945 the increase over 1944 rate was by the substantial amount of 3·7 per mille. Similarly for the rural areas the maximum rate in the quinquennium 1937-41 was 34·4 and the minimum was 32·6. This declined to 29·8 in 1942 and to 26·1 and 25·5 in 1943 and 1944 respectively. In 1945 the increase over 1944 rate was by 1·6 per mille. It shows that the increase in birth rate was more marked for the urban than for the rural areas. This may be considered with the fact that the decline in the urban area rate during the war years was more pronounced than in the case of rural areas. Further, the decline in the urban rate became conspicuous earlier in 1940 when it came down from 36·8 in 1939 to 27·6 in 1940. A similar feature in the case of rural areas showed itself only in 1942 when the rate came down from 32·7 in 1941 to 29·8. This suggests that the impact of factors responsible for bringing down the birth rate was more pronounced in the urban than in the rural areas. These trends have brought about a peculiar situation of interest. Before the War the urban birth rate, generally speaking, used to be fairly close to the rural birth rate. From 1940 onward this position changed and the rural birth rate rose well above the urban rate. The 1945 rates, however, show the reverse, the rate for the urban area shows an increase over the rate for the rural area.

The trends of the provincial birth rates could be studied from Chart I which shows the birth rates in rural and urban areas in 1941-45 in the various British Indian provinces. A few features stand out. In Bihar, Bengal, Orissa and Madras the birth rate for the rural areas is usually marked by higher than those for the urban areas.

\*The figure represents the population of registration areas of British India as at 1941 census date

*Deaths by Age-groups and Sex.*—The relevant figures are given in tables 10, 11 and 12. 1937-44 average shows that 40% of the total deaths come under the age group 0—5 ; of these 22% of the total deaths belong to the group below 1 year of age. In 1945 deaths below 5 years were 36% of the total, the reduction being mainly in the infant group which accounted for 19% of total deaths. As usual the male deaths were higher than the female deaths. Against 9% in 1937-1944 average, 11% of total deaths in 1945 belonged to the age group 5-15, the higher percentage in 1945 being shown by males and females both. As in 1937-44 average 20% of total deaths in 1945 were recorded in the age group 15—40. As usual the proportion of female deaths was higher in the group. In 1945 the percentage of deaths falling in the age group 40 and over was 33 as against 31 in 1939-44 average, male deaths as usual being higher than female deaths. The proportion of total deaths in the urban areas falling in below 1 year of age group was 24% which was distinctly higher than the corresponding proportion of 18% in the rural areas. This feature was noticed in the infant mortality rates also. The proportion of total deaths falling in the age groups 5-15, 15—40 and over 40 were 11%, 21% and 33 % in the rural areas, as against 8%, 20% and 31% respectively, in the urban areas. On the basis of these figures it seems that the group under 1 year of age accounts for a smaller proportion of total deaths in the rural areas than it does in the urban areas.

*Deaths by causes.*—Tables 16 and 17 give deaths by causes. For a proper appreciation of the nature and the limitations of the statistics shown in these tables it may be well to draw attention to paragraph, 4 to 11 of the Preliminary Note on Health Conditions in British India during the year 1945 by the Public Health Commissioner with the Government of India. The explanations given there show why intra-provincial comparisons of figures are not really valid except perhaps for cholera, smallpox and plague. However, a comparison between several years figures of a province does bring out trend in the province.

Chart IV shows the relative incidence in British India of mortality under the several groups of causes. It brings out a decrease in mortality in the various groups of causes compared to 1926—35 mean, though the decrease is distinct in the cases of fevers and 'all other cause' only, the two main groups of causes of mortality compared to 1936-40 mean the 'fevers' shows a lower mortality in 1945 but 'epidemic diseases' shows a clearly higher mortality. The total death rate in 1945 was not much lower than that of 1936-40 mean.

Chart V brings out the higher mortality under epidemic diseases compared to 1936-40 level. The greatest increase in 1945 was in the mortality due to cholera. Smallpox mortality too increased considerably. In fact, it was higher than what it was even in the decennium 1926-35. The mortality under smallpox was much the same as in 1926-35. In the case of plague there has been a steady reduction in mortality through all these years.

The group 'fevers' consisting of a large number of heterogenous diseases associated with fever accounted for 58% of total mortality from all causes in 1946. There was however clear decrease in the mortality rate compared with the rates in 1943 and 1944, when they were abnormal. In the Central Provinces the mortality rate was 21·2 per mille. It was the highest since 1937. In Bihar, Orissa, Bombay and Ajmer-Merwara the mortality was above the normal level. In all the provinces the rural rate was as usual much above the urban rate.

Of the remaining groups, 7% of the total deaths were recorded under 'respiratory diseases' 4% of total deaths were accounted for by dysentery and diarrhoea. Cholera, smallpox and plague combined were responsible for 6% of total deaths and the balance 25% of total deaths, came under the miscellaneous group 'all other causes'. The mortality rate for *Dysentery* and *Diarrhoea* in British India was within the normal level. The mortality rate in the Central Provinces was abnormally high. As usual the urban mortality rate was distinctly higher than the rural rate in all the provinces. The remarks about mortality from dysentery and diarrhoea apply equally well to mortalities from *Respiratory Diseases* and 'All Other Causes'.

Cholera, smallpox and plague occupy an important position in the study of health conditions in India, since they are the only diseases for which reasonably reliable statistics are collected on a national scale and further because they belong to the group of 'preventible diseases'. The mortality from *Cholera* in British India was fairly heavy though it was less than what it was in 1944. The Central Provinces recorded an abnormally high mortality. The mortality rate was 3.1 per mille and was the highest since 1937. The disease prevailed in an epidemic form in the United Provinces, Bihar and Bombay. In the United Provinces the total mortality was the highest since 1937. From the column giving the number of villages infected in Table 18 it will be seen that the infection in the United Provinces, the Central Provinces and Bombay was more widespread than it had been in the past five years. Orissa also experienced heavy incidence. In all these provinces the rural mortality rate for cholera was markedly higher than the urban rate, while in other provinces there was not much difference in the rural and the urban rates. This shows that in the epidemic outbreak of cholera rural areas were the worst sufferers.

The mortality rate for *Smallpox* in British India was the highest since 1937 excepting the year 1944. Severe smallpox epidemics prevailed in the United Provinces, Bihar, Orissa, Bengal, the Central Provinces and Madras. The mortality in each case excepting Bengal was the highest since 1937. In Bengal the mortality figure was exceeded only in the grave epidemic year of 1944. The mortality in Assam also was heavy. It is interesting to record that the sharp difference noticed in rural and urban mortality rates for cholera in the provinces affected at epidemic level is not shown in the case of smallpox. On the contrary, in Bengal the urban mortality rate was 1.3 per mille which is significantly higher than the rural mortality rate 0.5 per mille. The last column of table 19 shows the high proportion of deaths from smallpox falling in the age groups below 1 year and 1—10 years in several provinces. These figures show little improvement over the record in the past.

There was a severe epidemic of *Plague* in Bombay and this heavy incidence in one province alone raised the mortality rate for plague in British India. The United Provinces and Bihar had a mild epidemic incidence. The maps in charts IX to XI show the geographical distribution of mortality from cholera, smallpox and plague by district.

The last columns of Tables 21 and 23 show statistics of deaths from malaria and tuberculosis respectively. The statistics are specially sought after in view of the importance of these diseases, but unfortunately the figures are not very useful firstly, for the reason that the data is not collected for rural areas in a number of provinces and secondly that the figures are not considered to reflect the true mortality in the country because of the unreliable reporting agency employed in the collection of the data. Table 24 showing hospital admissions due to various kinds of tuberculosis does not reflect the true incidence of the disease in the country as it relates only to the hospital cases. A comparison with the previous year's figures shows the activities in connection with the hospitalisation of this disease and the relative

incidence of the various kinds of Tuberculosis. Compared to previous years only North-West Frontier Province, Bengal and Madras figures show increased activity in this direction.

Tables 18-23 show mainly the mortality by month from cholera, smallpox, plague, fevers, dysentery and diarrhoea and respiratory diseases. Charts VI to VIII show the incidence of monthly mortality from cholera, smallpox and plague in British India during 1941-1945. It will be seen that the shape of the curves in 1945 conformed more or less to the normal type. Charts XII to XIV show the monthly death rates in the provinces heavily affected by cholera, smallpox and plague. They bring out the difference in time for the peak of infection in each of the affected provinces.

*Maternal Mortality.*—It is unsatisfactory to record that maternal mortality is not classified separately throughout India. Table 27 shows maternal death rates per 1000 live and still births for certain towns in British India. It will be seen that the rate is fairly high in some of the bigger towns. In this connection attention may be drawn in particular to the very high rates in Gaya and Jamshedpur in Bihar, Midnapur, Berhampur, Khulna, Mymensingh and Chandpur in Bengal, Broach, Nadiad, Godhra and Ahmedabad in Bombay, Shikarpur in Sind, Kumbakonam, Gudiyattam and Rajapalayam in Madras.

*Indian States.*—Table 15 gives births, deaths and infant mortality for certain Indian States. Table 25 gives mortality by causes. It will be observed that there is a wide range of variation between similar rates in the States. It is not free from doubt whether the wide fluctuation is not really due to the varying degree of under-reporting of vital events rather than due to any inherent variation in the rates. It is disappointing that the data relating to several major states have not been available so far.

*Medical Scientific Papers.*—It has been found possible to include in this volume a list of Research and Scientific Medical papers published, during 1940-45, which could not be shown in the earlier issue of the Statistical Appendices for 1940-44.

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## SECTION I

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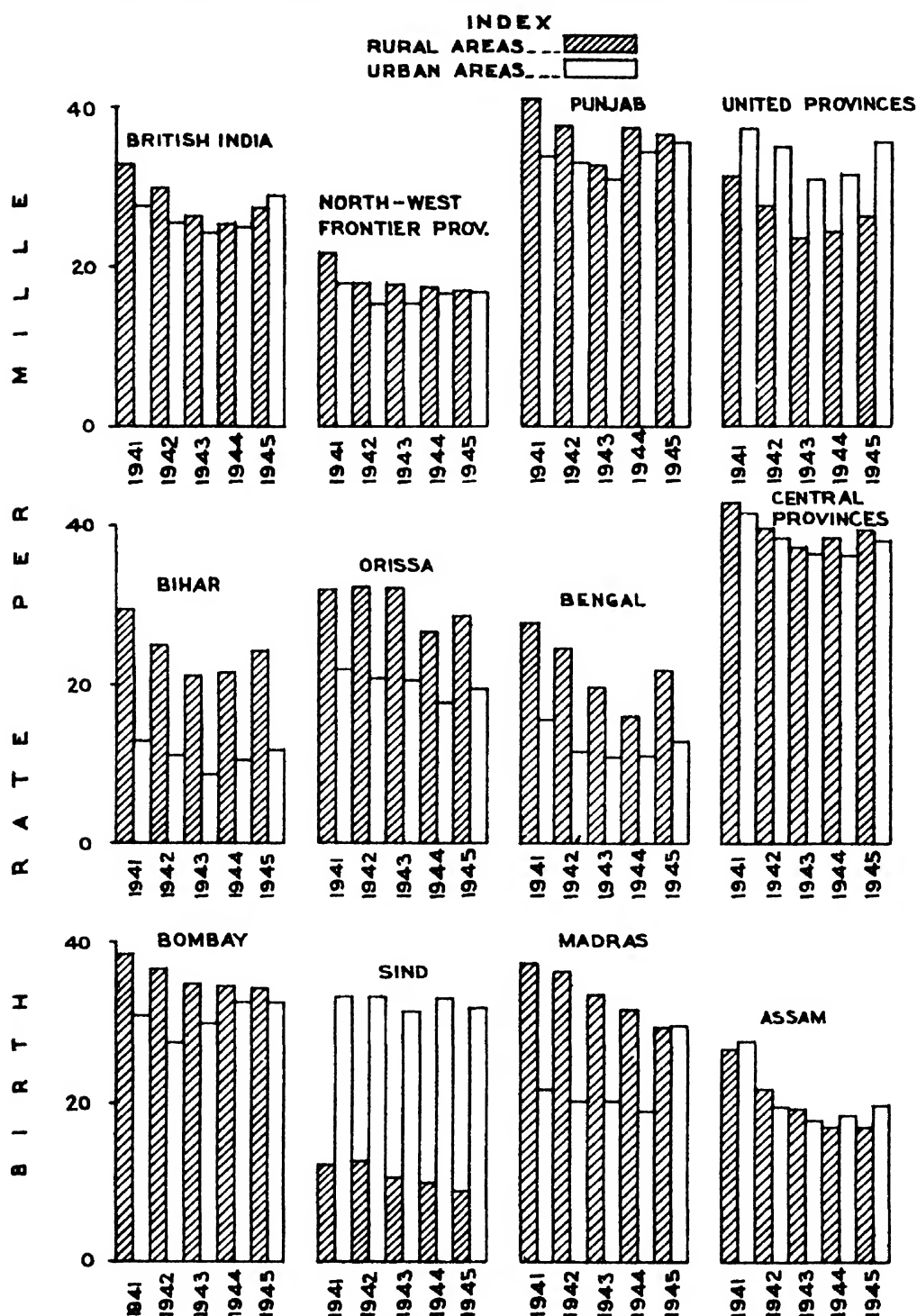


**TABLE 1.—MID-YEAR ESTIMATED POPULATION OF REGISTRATION AREAS BY RURAL AND URBAN AND BY SEX IN THE YEAR 1945.**

	Rural	Urban	Total	Males	Females	Area in square miles.	Density per square mile.
<b>North-West Frontier Province</b>	2,636,716	614,532	3,251,248	1,773,620	1,477,628	13,308	244
<b>Punjab .</b>	25,912,614	4,557,512	30,470,426	16,441,171	14,027,255	56,563	516
<b>Delhi .</b>	261,652	778,350	1,040,002	607,058	432,944	574	1,812
<b>United Provinces</b>	59,131,202	7,424,681	66,555,883	36,349,209	27,545,674	106,149	545
<b>Bihar .</b>	35,921,139	1,743,090	37,664,229	18,884,860	18,779,369	69,745	540
<b>Orissa .</b>	7,207,397	355,473	7,652,870	3,684,143	3,968,727	21,894	350
<b>Bengal .</b>	53,343,000	6,036,493	62,429,408	32,943,854	29,485,554	72,435	862
<b>Central Provinces</b>	15,183,220	2,273,264	17,459,484	8,759,242	8,700,242	98,575	177
<b>Bombay .</b>	15,143,613	5,991,472	22,099,115	11,439,016	10,620,099	76,389	289
<b>Sind .</b>	3,820,005	974,877	4,794,882	2,610,627	2,184,255	48,136	100
<b>Madras .</b>	42,775,320	8,533,861	51,362,181	25,613,625	25,748,556	123,050	417
<b>Coorg .</b>	153,045	11,402	169,447	92,581	76,866	1,593	106
<b>Assam .</b>	9,323,841	235,245	9,914,086	5,253,711	4,660,375	31,251	317
<b>Ajmer-Merwara</b>	333,155	223,739	616,944	324,070	292,874	2,367	261
<b>British India .</b>	206,930,249	39,821,956	306,761,205	158,760,787	148,000,418	761,969	403



# BIRTH RATES IN RURAL AND URBAN AREAS IN 1941-1945 IN BRITISH INDIAN PROVINCES



(CHART-I)

TABLE 2.—BIRTHS IN RURAL AND URBAN AREAS.

			Rate per millo.			
	Rural	Urban	Total	Rural	Urban	Total
<b>NORTH-WEST FRONTIER PROVINCE</b>						
<b>1937—43—</b>						
Max. . .	62,283	19,211	72,527	28.5	30.3	28.7
Med. . .	60,587	9,975	70,562	25.0	19.2	24.0
Min. . .	44,140	8,619	52,959	17.6	15.1	16.9
1940 . . .	60,587	9,975	70,562	25.0	19.2	24.0
1941 . . .	53,552	9,630	63,182	21.7	17.8	21.0
1942 . . .	44,715	8,619	52,334	17.8	15.1	17.4
1943 . . .	44,140	8,819	52,959	17.6	15.2	16.9
1944 . . .	44,904	9,819	54,723	17.3	16.5	17.1
1945 . . .	44,190	10,221	54,411	16.8	16.6	16.7
<b>PUNJAB.</b>						
<b>1937—1943—</b>						
Max. . .	1,033,071	139,711	1,165,837	44.7	32.9	43.8
Med. . .	980,893	132,766	1,111,604	41.6	38.1	41.0
Min. . .	822,875	122,151	956,826	32.7	32.7	32.4
1940 . . .	995,763	131,622	1,127,385	41.4	32.7	40.2
1941 . . .	990,265	138,287	1,128,552	40.6	33.5	39.5
1942 . . .	926,121	139,711	1,065,832	37.4	32.9	36.7
1943 . . .	822,875	133,951	956,826	32.7	30.8	32.4
1944 . . .	951,828	152,431	1,104,259	37.2	34.2	36.8
1945 . . .	941,882	160,845	1,102,727	36.4	35.3	36.2
<b>DELHI.</b>						
<b>1937—1943—</b>						
Max. . .	12,071	25,996	37,207	54.8	44.6	47.7
Med. . .	10,691	23,128	33,920	43.1	35.0	37.7
Min. . .	8,235	20,701	31,143	32.6	35.0	37.7
1940 . . .	10,792	23,128	33,920	45.1	35.0	37.7
1941 . . .	11,201	25,996	37,207	46.0	38.0	40.1
1942 . . .	10,691	25,204	35,895	43.1	35.6	37.5
1943 . . .	8,235	25,524	33,759	32.6	34.9	34.3
1944 . . .	9,187	28,234	37,421	35.7	37.4	37.0
1945 . . .	10,299	30,665	40,964	39.1	39.4	39.4
<b>UNITED PROVINCES.</b>						
<b>1937—1943—</b>						
Max. . .	1,531,352	251,398	1,781,118	32.5	42.0	33.6
Med. . .	1,493,391	244,607	1,738,906	32.2	35.0	33.1
Min. . .	1,177,081	220,432	1,397,513	23.8	30.9	24.7
1940 . . .	1,439,330	241,265	1,680,595	30.1	36.0	30.8
1941 . . .	1,517,559	254,398	1,771,957	31.4	37.2	32.1
1942 . . .	1,348,809	244,607	1,593,416	27.5	35.0	28.5
1943 . . .	1,177,081	220,432	1,397,513	23.8	30.9	24.7
1944 . . .	1,209,561	226,465	1,436,026	24.2	31.1	25.1
1945 . . .	1,317,663	263,298	1,580,961	26.1	35.5	27.3

TABLE 2.—BIRTHS IN RURAL AND URBAN AREAS—*contd.*

				Rate per mille.		
	Rural	Urban	Total	Rural	Urban	Total
<b>BIHAR.</b>						
1937—1943—						
Max. . . .	1,090,305	27,810	1,116,178	32.4	19.9	31.8
Med. . . .	1,029,585	23,877	1,050,702	29.6	14.8	28.8
Min. . . .	744,088	15,798	759,886	20.9	8.8	20.3
1940 . . . .	982,128	23,877	1,006,005	28.5	14.8	27.9
1941 . . . .	1,029,535	21,117	1,050,702	29.6	12.8	28.8
1942 . . . .	873,552	18,084	891,636	24.8	11.0	24.2
1943 . . . .	744,088	15,798	759,886	20.9	8.8	20.3
1944 . . . .	758,918	17,843	776,761	21.3	10.4	20.8
1945 . . . .	862,990	20,807	883,797	24.0	11.9	23.5
<b>ORISSA.</b>						
1937—1943—						
Max. . . .	246,568	7,051	253,568	34.4	25.3	33.9
Med. . . .	234,425	6,871	241,296	32.0	20.5	31.9
Min. . . .	227,623	5,117	234,674	31.6	21.7	31.2
1940 . . . .	246,568	7,000	253,568	34.4	22.3	33.9
1941 . . . .	227,623	7,051	234,674	31.6	21.7	31.2
1942 . . . .	234,425	6,871	241,296	32.0	20.5	31.9
1943 . . . .	230,034	6,989	237,023	31.6	20.2	31.1
1944 . . . .	189,840	5,997	195,837	26.1	17.4	25.7
1945 . . . .	206,840	6,81	213,655	28.3	19.2	27.9
<b>BENGAL.</b>						
1937—1943—						
Max. . . .	1,625,199	88,161	1,707,050	33.4	23.7	32.7
Med. . . .	1,507,791	81,851	1,594,291	27.6	23.2	26.4
Min. . . .	1,089,170	62,386	1,448,299	19.6	10.6	23.6
1940 . . . .	1,593,685	88,161	1,681,846	29.6	16.1	28.3
1941 . . . .	1,507,791	86,500	1,594,291	27.6	15.3	26.4
1942 . . . .	1,380,401	67,898	1,448,299	24.9	11.5	23.6
1943 . . . .	1,089,170	62,386	1,151,556	19.6	10.6	18.7
1944 . . . .	893,985	63,225	957,210	16.0	10.8	15.6
1945 . . . .	1,226,037	75,277	1,301,314	21.8	12.4	20.8
<b>CENTRAL PROVINCES.</b>						
1937—1943—						
Max. . . .	629,614	86,669	716,283	42.7	42.5	42.5
Med. . . .	558,616	78,501	634,908	37.5	42.5	37.9
Min. . . .	548,804	74,135	622,939	37.1	37.6	37.5
1940 . . . .	550,120	77,826	627,946	37.5	37.6	37.5
1941 . . . .	629,614	86,669	716,283	42.7	41.1	42.5
1942 . . . .	585,961	82,466	668,427	39.4	38.3	39.3
1943 . . . .	554,445	79,572	634,017	37.0	36.3	36.9
1944 . . . .	574,695	80,460	655,155	38.1	36.0	37.8
1945 . . . .	597,361	86,148	683,509	39.3	37.9	39.2
<b>BOMBAY.</b>						
1937—1943—						
Max. . . .	623,409	167,993	775,545	39.2	29.7	39.1
Med. . . .	597,988	164,312	755,817	38.5	43.8	36.6
Min. . . .	545,647	127,753	713,640	34.5	30.6	33.2
1940 . . . .	588,701	167,116	755,817	38.3	31.8	36.6
1941 . . . .	597,988	165,124	763,112	38.5	30.6	36.5
1942 . . . .	574,292	150,434	724,726	36.6	27.3	34.2
1943 . . . .	545,647	167,993	713,640	34.5	29.7	33.2
1944 . . . .	554,794	186,516	741,210	34.7	32.3	34.1
1945 . . . .	555,786	190,609	746,395	34.4	32.3	33.8

TABLE 2.—BIRTHS IN RURAL AND URBAN AREAS—*contd.*

Rate per mille.

SIND.	Rural	Urban	Total	Rural	Urban	Total
1937—1943—						
Max. . .	53,108	30,231	81,992	15.0	33.3	18.8
Med. . .	50,358	28,884	77,269	14.4	33.5	18.1
Min. . .	39,470	26,911	68,623	10.6	33.3	14.7
1940 . . .	53,108	28,884	81,992	14.7	33.5	18.3
1941 . . .	44,519	29,471	73,990	12.2	33.3	16.3
1942 . . .	46,812	30,231	77,043	12.7	33.3	16.7
1943 . . .	39,470	29,153	68,623	10.6	31.3	14.7
1944 . . .	37,183	31,486	68,669	9.8	33.0	14.5
1945 . . .	33,839	31,158	64,997	8.9	31.9	13.6
MADRAS.						
1937—1943—						
Max. . .	1,548,983	251,032	1,717,133	37.4	63.3	36.1
Med. . .	1,529,924	165,849	1,694,751	37.3	20.1	34.9
Min. . .	1,399,795	152,679	1,555,644	33.3	21.4	31.1
1940 . . .	1,529,924	169,918	1,699,842	37.3	21.9	34.9
1941 . . .	1,547,844	169,289	1,717,133	37.4	21.4	34.8
1942 . . .	1,524,580	159,443	1,684,023	36.4	20.0	33.8
1943 . . .	1,399,795	165,849	1,565,644	33.3	20.1	31.1
1944 . . .	1,337,025	157,109	1,494,134	31.5	18.7	29.4
1945 . . .	1,258,416	253,462	1,511,878	29.4	29.5	29.4
COORG.						
1937—1943—						
Max. . .	3,486	689	4,028	22.5	61.2	24.5
Med. . .	3,210½	572	3,782	20.7	60.9	23.0
Min. . .	2,607	496	3,199	16.5	48.5	18.9
1940 . . .	3,215	540	3,755	20.4	48.5	22.3
1941 . . .	3,179	689	3,868	20.2	61.2	22.9
1942 . . .	2,678	619	3,297	17.0	54.9	19.5
1943 . . .	2,607	592	3,199	16.5	52.5	18.9
1944 . . .	2,532	561	3,093	16.0	49.8	18.3
1945 . . .	2,486	630	3,116	15.7	55.2	18.4
ASSAM.						
1937—1943—						
Max. . .	245,708	7,373	253,081	29.4	31.8	29.4
Med. . .	235,793	6,635	242,428	28.2	30.7	28.3
Min. . .	181,287	4,877	186,164	19.1	17.5	19.1
1940 . . .	237,253	6,901	244,154	26.2	26.6	26.2
1941 . . .	245,708	7,373	253,081	26.7	27.7	26.7
1942 . . .	201,801	5,272	207,073	21.6	19.4	21.5
1943 . . .	181,287	4,877	186,164	19.1	17.5	19.1
1944 . . .	161,160	5,116	166,276	17.0	18.3	17.0
1945 . . .	162,979	5,553	168,632	16.9	19.8	17.0
AJMER- MERWARA.						
1937—1943—						
Max. . .	14,457	8,881	21,983	35.4	40.6	37.1
Med. . .	11,377	8,240	20,258	30.3	38.3	34.1
Min. . .	7,473	7,526	15,084	19.7	38.2	25.1
1940 . . .	8,353	8,092	16,445	22.8	38.2	28.4
1941 . . .	9,399	8,240	17,639	25.3	38.3	30.1
1942 . . .	11,377	8,881	20,258	30.3	40.6	34.1
1943 . . .	7,473	7,611	15,084	19.7	34.3	25.1
1944 . . .	9,465	7,856	17,321	24.7	34.9	28.4
1945 . . .	9,757	8,347	18,104	25.1	36.5	29.3½

TABLE 2—BIRTHS IN RURAL AND URBAN AREAS—*contd.*

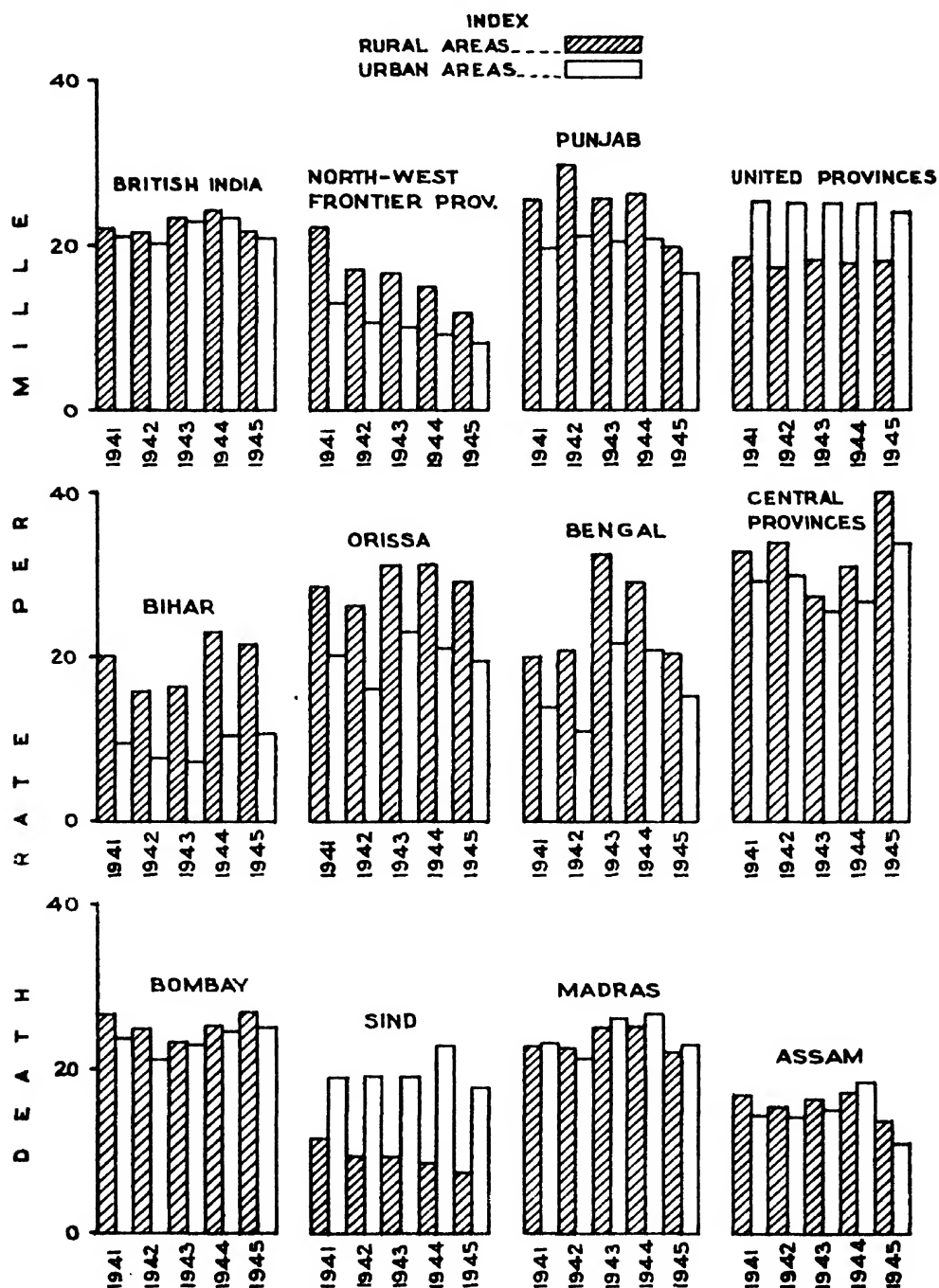
			Rate per mille.			
	Rural	Urban	Total	Rural	Urban	Total
BRITISH INDIA.						
1937—1943—						
Max. . .	8,483,765	1,032,400	9,425,671	34.4	39.5	34.5
Med. . .	8,365,602	971,341	9,346,145	33.5	36.8	33.6
Min. . .	6,846,347	994,692	7,775,893	26.1	27.6	25.9
1940 . . .	8,299,527	984,305	9,283,832	32.6	27.6	32.0
1941 . . .	8,415,837	1,009,834	9,425,671	32.7	27.6	32.1
1942 . . .	7,766,215	948,340	8,714,555	29.8	25.3	29.3
1943 . . .	6,846,347	929,546	7,775,893	26.1	24.3	25.9
1944 . . .	6,735,077	973,118	7,708,195	25.5	25.0	25.4
1945 . . .	7,230,525	1,143,938	8,374,463	27.1	28.7	27.3 ✓

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# DEATH RATES IN RURAL AND URBAN AREAS IN 1941-1945 IN BRITISH INDIAN PROVINCES



(CHART - II)

TABLE 8.—DEATHS IN RURAL AND URBAN AREAS.

				Rate per mille.		
				Rural	Urban	Total
NORTH-WEST FRONTIER PROVINCE.						
1937—43—						
Max.	.	.	.	54,395	6,965	61,360
Med.	.	.	.	43,770	5,917	50,170
Min.	.	.	.	39,033	5,243	44,276
1940	.	.	.	45,146	5,880	51,026
1941	.	.	.	54,395	6,965	61,360
1942	.	.	.	43,199	5,917	49,116
1943	.	.	.	42,195	5,727	47,922
1944	.	.	.	39,018	5,526	44,544
1945	.	.	.	31,222	4,976	36,198
PUNJAB.						
1937—43—						
Max.	.	.	.	733,471	89,070	822,541
Med.	.	.	.	581,743	76,225	657,968
Min.	.	.	.	488,845	67,423	556,268
1940	.	.	.	581,743	76,225	657,968
1941	.	.	.	623,819	80,634	704,453
1942	.	.	.	733,471	89,070	822,541
1943	.	.	.	648,747	88,523	737,270
1944	.	.	.	665,565	92,658	758,223
1945	.	.	.	517,691	75,653	593,344
DELHI.						
1937—43—						
Max.	.	.	.	8,207	16,047	22,611
Med.	.	.	.	5,828	11,906	17,734
Min.	.	.	.	5,306	10,914	16,630
1940	.	.	.	5,828	11,906	17,734
1941	.	.	.	5,781	13,618	19,399
1942	.	.	.	8,207	13,112	21,319
1943	.	.	.	6,564	16,047	22,611
1944	.	.	.	6,630	16,736	23,366
1945	.	.	.	5,161	13,304	18,465
UNITED PROVINCES.						
1937—43—						
Max.	.	.	.	1,072,490	180,156	1,249,988
Med.	.	.	.	891,230	173,678	1,064,908
Min.	.	.	.	858,298	163,020	1,033,429
1940	.	.	.	890,010	161,171	1,051,181
1941	.	.	.	891,230	173,678	1,064,908
1942	.	.	.	858,298	175,131	1,033,429
1943	.	.	.	907,289	180,156	1,087,445
1944	.	.	.	887,953	184,459	1,072,412
1945	.	.	.	917,942	179,043	1,096,985
BIHAR.						
1937—43—						
Max.	.	.	.	745,663	18,777	763,763
Med.	.	.	.	702,446	17,460	719,906
Min.	.	.	.	555,790	12,288	568,905
1940	.	.	.	702,446	17,460	719,906
1941	.	.	.	697,532	15,316	712,848
1942	.	.	.	555,790	13,115	568,905
1943	.	.	.	581,896	12,288	594,184
1944	.	.	.	819,138	17,552	836,690
1945	.	.	.	779,099	18,114	797,213

TABLE 3.—DEATHS IN RURAL AND URBAN AREAS—*contd.*

					Rate per mille.					
					Rural	Urban	Total	Rural	Urban	Total
ORISSA.										
1937—43—										
Max.	.	.	.	.	225,644	7,940	233,584	31.1	23.0	30.7
Med.	.	.	.	.	194,521	5,318	199,312	27.8	16.9	27.3
Min.	.	.	.	.	169,535	4,370	174,853	23.7	16.9	23.4
1940	.	.	.	.	169,535	5,318	174,853	23.7	16.9	23.4
1941	.	.	.	.	206,702	6,572	213,274	28.7	20.3	28.4
1942	.	.	.	.	189,340	5,380	194,726	26.2	16.1	25.7
1943	.	.	.	.	225,644	7,940	233,584	31.1	23.0	30.7
1944	.	.	.	.	228,220	7,361	235,581	31.4	21.3	31.0
1945	.	.	.	.	210,760	6,852	217,612	28.9	19.3	28.4
BENGAL.										
1937—43—										
Max.	.	.	.	.	1,780,315	128,307	1,908,622	32.1	21.8	31.1
Med.	.	.	.	.	1,156,817	75,528	1,222,164	20.8	21.4	19.9
Min.	.	.	.	.	1,016,105	65,347	1,090,530	19.3	11.1	18.7
1940	.	.	.	.	1,039,075	72,007	1,111,082	19.3	13.2	18.7
1941	.	.	.	.	1,106,257	78,613	1,184,850	20.2	13.9	19.6
1942	.	.	.	.	1,156,817	65,347	1,222,164	20.8	11.1	19.9
1943	.	.	.	.	1,780,315	128,307	1,908,622	32.1	21.8	31.1
1944	.	.	.	.	1,604,555	122,334	1,726,870	28.9	20.8	28.1
1945	.	.	.	.	1,146,401	91,672	1,238,133	20.3	15.1	19.8
CENTRAL PROVINCES.										
1937—43—										
Max.	.	.	.	.	551,090	68,211	619,301	37.7	36.9	37.6
Med.	.	.	.	.	458,225	60,725	515,300	30.7	29.3	30.7
Min.	.	.	.	.	416,330	55,211	472,906	27.8	29.1	27.6
1940	.	.	.	.	445,199	69,725	506,224	30.4	29.3	30.3
1941	.	.	.	.	478,581	61,331	539,912	32.4	29.1	32.2
1942	.	.	.	.	502,717	61,515	567,262	33.8	30.0	33.3
1943	.	.	.	.	416,330	56,576	472,906	27.8	25.8	27.6
1944	.	.	.	.	459,619	59,899	519,518	30.7	26.8	30.0
1945	.	.	.	.	607,592	75,855	683,447	40.0	33.4	39.1
BOMBAY.										
1937—43—										
Max.	.	.	.	.	431,836	131,509	547,837	27.2	23.3	27.9
Med.	.	.	.	.	391,182	118,401	502,531	24.9	21.5	23.4
Min.	.	.	.	.	371,022	102,026	493,208	23.4	23.2	24.3
1940	.	.	.	.	379,463	121,997	501,465	24.7	23.2	24.3
1941	.	.	.	.	412,252	127,485	539,737	26.6	23.7	25.8
1942	.	.	.	.	398,147	118,401	516,548	25.3	21.5	24.4
1943	.	.	.	.	371,022	131,509	502,531	23.4	23.3	23.4
1944	.	.	.	.	412,503	143,958	556,461	25.8	24.9	25.6
1945	.	.	.	.	435,341	149,551	584,892	26.9	25.3	26.5
SIND.										
1937—43—										
Max.	.	.	.	.	43,081	17,711	59,891	11.8	19.1	13.2
Med.	.	.	.	.	34,648	16,529	52,159	9.4	19.2	11.3
Min.	.	.	.	.	33,399	13,781	44,779	8.8	17.9	10.4
1940	.	.	.	.	36,831	16,529	53,360	10.2	19.2	11.9
1941	.	.	.	.	43,081	16,813	53,894	11.8	19.0	13.2
1942	.	.	.	.	34,648	17,511	52,159	9.4	19.3	11.3
1943	.	.	.	.	35,313	17,711	53,024	9.4	19.1	11.4
1944	.	.	.	.	32,700	21,799	54,499	8.7	22.9	11.5
1945	.	.	.	.	28,942	17,450	46,392	7.6	17.9	9.7

TABLE 3.—DEATHS IN RURAL AND URBAN AREAS—*contd.*

				Rate per mille.			
		Rural.	Urban.	Total.	Rural.	Urban.	Total.
1937-43—							
Max.		1,054,554	216,143	1,270,687	25.1	26.2	25.2
Med.		945,229	174,900	1,111,281	22.0	21.6	22.9
Min.		923,879	108,173	1,032,052	21.0	15.0	21.6
1940		920,589	177,351	1,097,940	22.4	22.8	22.5
1941		951,875	183,962	1,135,837	23.0	23.2	23.0
1942		945,229	174,900	1,120,129	22.7	21.6	22.5
1943		1,054,544	216,143	1,270,687	25.1	26.2	25.2
1944		1,066,732	224,686	1,291,418	25.1	26.7	25.4
1945		944,978	198,423	1,143,401	22.1	23.1	22.9
COORG							
1937 43—							
Max.		3,887	672	4,485	25.1	59.7	27.2
Med.		3,208	556	3,847	20.7	49.4	22.8
Min.		2,757	426	3,429	17.5	38.3	20.3
1940		3,027	426	3,453	19.2	38.3	20.5
1941		3,298	556	3,854	20.9	49.4	22.8
1942		3,176	671	3,847	20.1	59.6	22.8
1943		2,757	672	3,429	17.5	59.7	20.3
1944		2,873	586	3,459	18.2	52.0	20.5
1945		2,576	572	3,148	16.3	50.1	13.6
ASSAM.							
1937-43—							
Max.		173,870	4,207	177,767	21.0	15.1	20.9
Med.		155,384	3,798	159,591	16.4	17.6	16.3
Min.		144,420	3,572	148,240	15.4	13.8	15.4
1940		145,292	3,572	148,864	16.0	13.8	16.0
1941		154,830	3,786	158,616	16.8	14.2	16.8
1942		144,420	3,820	148,240	15.4	14.0	15.4
1943		155,384	4,207	159,591	16.4	15.1	16.2
1944		162,170	5,038	167,208	17.1	18.1	17.1
1945		131,400	3,136	134,536	13.6	10.9	13.6
AJMER-MERWARA.							
1937-43—							
Max.		16,304	8,096	24,400	44.6	38.2	42.2
Med.		8,540	6,660	14,980	22.5	36.2	24.9
Min.		7,616	6,178	14,100	18.4	28.7	23.4
1940		16,304	8,096	24,400	44.5	38.2	42.2
1941		7,922	6,178	14,100	21.4	28.7	24.1
1942		8,835	7,063	15,928	23.6	32.3	26.8
1943		8,540	6,410	14,980	22.5	29.0	24.9
1944		9,445	7,437	16,882	24.6	33.0	27.7
1945		9,641	5,319	14,960	24.8	23.2	24.2
BRITISH INDIA.							
1937-43—							
Max.		6,234,540	872,246	7,108,786	23.8	20.9	23.6
Med.		5,532,330	741,633	6,333,313	21.5	20.8	21.3
Min.		5,330,793	639,059	6,112,375	21.2	17.5	21.1
1940		5,330,793	741,633	6,122,456	21.2	20.8	21.1
1941		5,637,535	775,597	6,413,042	21.9		21.8
1942		5,532,330	753,933	6,333,313	21.5	19.4	21.3
1943		6,234,540	872,246	7,108,786	23.8	20.9	23.6
1944		6,397,102	919,029	7,397,131	24.2	21.4	24.1
1945		5,763,806	839,920	6,603,726	21.6	21.7	21.5

TABLE 4.—TOTAL BIRTHS BY MONTHS DURING THE YEAR 1945.

	Jan	Feb	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North-West Frontier Pro vince.	4,793	4,514	5,398	4,301	3,507	3,910	4,135	4,042	4,404	4,986	4,826	5,238
Punjab	100,945	89,061	92,107	73,502	70,717	69,038	80,540	95,579	97,794	110,565	110,974	111,885
Delhi	3,297	2,466	2,716	2,333	2,335	2,910	3,657	4,583	4,298	4,647	4,131	3,592
United Provinces	136,007	121,169	130,815	120,898	108,995	110,993	125,719	147,140	154,680	153,050	135,711	135,784
Bihar	79,514	61,256	77,737	67,226	59,478	61,024	65,684	74,611	87,565	88,334	77,030	84,338
Orissa	17,215	15,503	17,177	18,704	19,768	18,528	18,754	17,987	16,522	18,116	17,567	17,814
Bengal	105,406	106,513	126,825	107,184	92,161	82,373	82,516	82,865	98,839	121,221	146,821	148,590
Central Provinces	51,263	50,182	58,299	53,934	53,451	49,705	54,233	53,035	65,491	64,347	59,114	54,452
Bombay	58,927	51,832	61,376	57,830	61,040	58,819	64,269	63,153	67,132	63,237	63,013	62,367
Sind	6,126	4,932	4,752	4,004	4,040	4,181	4,821	5,371	5,795	6,701	6,775	7,499
Madras	105,300	91,383	108,866	111,171	120,646	130,318	148,789	150,456	146,214	141,070	130,084	127,581
Coorg	260	233	261	232	348	300	259	263	236	230	216	248
Assam	15,288	13,671	12,806	11,973	10,486	10,709	12,033	11,314	14,800	16,119	19,790	19,843
Ajmer-Merwara	1,558	1,473	1,373	1,230	1,041	964	1,246	1,640	1,829	2,025	1,780	1,945
British India	688,899	614,568	700,508	634,522	608,013	603,792	666,685	730,039	765,752	799,648	780,862	781,176

TABLE 5.—BIRTHS BY MONTHS IN RURAL AREAS DURING THE YEAR 1945.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North-West Frontier Province.	3,856	4,062	4,454	3,722	2,878	3,207	3,335	3,118	3,514	3,927	3,857	4,200
Punjab . . . . .	87,249	77,293	79,990	64,296	61,549	58,819	67,749	79,558	82,965	92,003	94,208	96,026
Delhi . . . . .	855	657	689	581	570	689	1,119	1,172	1,053	1,208	1,061	841
United Provinces . . . . .	114,464	104,244	110,546	102,888	91,928	92,427	103,314	191,889	126,525	125,096	112,052	114,290
Bihar . . . . .	77,999	60,160	76,578	65,802	53,264	59,623	63,937	72,384	85,199	86,207	74,613	82,359
Orissa . . . . .	16,703	14,935	16,611	18,228	19,248	18,013	18,093	17,384	15,925	17,531	16,993	17,176
Bengal . . . . .	99,337	101,662	120,539	101,691	87,250	77,308	76,928	76,862	91,652	114,288	138,693	139,827
Central Provinces . . . . .	47,535	44,118	50,910	47,952	47,808	41,067	47,625	53,427	56,274	55,601	51,643	47,351
Bombay . . . . .	42,219	38,682	46,924	44,849	47,472	45,345	49,067	50,726	49,383	49,440	47,946	43,733
Sind . . . . .	3,350	2,437	2,210	1,858	1,957	2,233	2,549	2,765	3,127	3,696	3,539	4,068
Madras* . . . . .	92,969	80,737	96,440	98,355	107,744	118,916	134,717	133,027	132,091	125,157	114,739	111,005
Coorg . . . . .	221	188	184	160	267	247	253	219	200	180	172	195
Assam . . . . .	14,653	13,319	12,353	11,592	10,108	10,396	11,576	10,877	14,047	15,666	19,125	19,277
Ajmer-Merwara . . . . .	838	912	769	676	600	483	589	828	923	1,028	959	1,152
British India . . . . .	602,478	543,453	613,937	532,949	537,343	531,773	537,893	633,133	632,893	691,023	679,600	681,560

\*For districts excluding municipalities and hence total differs from the corresponding figures in Table 2.

TABLE 6.—BIRTHS BY MONTHS IN URBAN AREA DURING THE YEAR 1945.

	Jan.	Feb.	March	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
North-West Frontier Province	937	812	44	579	629	703	800	924	890	1,059	969	978
Punjab . . . . .	13,516	11,768	12,117	9,206	9,168	10,239	12,794	16,021	14,829	18,562	16,766	15,859
Delhi . . . . .	2,442	1,809	2,027	1,752	1,765	2,221	2,633	3,511	3,240	3,439	3,070	2,751
United Provinces . . . . .	21,543	16,925	20,269	18,010	17,067	18,566	22,405	27,251	28,155	27,954	23,659	21,494
Bihar . . . . .	1,615	1,096	1,359	1,424	1,214	1,396	1,687	2,227	2,366	2,127	2,417	1,979
Orissa . . . . .	512	568	566	476	520	515	661	603	597	585	574	638
Bengal . . . . .	6,069	4,851	6,286	5,493	4,911	5,065	5,588	6,003	7,187	6,933	8,128	8,763
Central Provinces . . . . .	6,678	6,064	7,389	5,982	5,643	5,638	6,608	9,608	9,220	8,746	7,471	7,101
Bombay . . . . .	16,708	12,170	14,452	12,981	13,568	13,474	15,402	17,427	18,099	18,797	18,097	18,624
Sind . . . . .	2,776	2,445	2,512	2,146	2,033	1,918	2,272	2,606	2,668	3,005	2,236	3,431
Madras * . . . . .	12,331	10,646	12,426	12,816	12,902	13,402	14,072	14,429	14,123	15,913	15,345	16,576
Ceorg . . . . .	39	45	77	72	81	52	36	44	36	50	44	66
Assam . . . . .	635	352	413	391	378	313	457	437	553	453	665	568
Ajmer-Merwara . . . . .	720	561	604	554	441	481	657	812	906	997	821	798
British India . . . . .	86,421	71,112	81,511	71,882	70,370	74,014	15,877	101,903	102,899	108,620	111,268	99,

\* For Municipalities only and not all urban areas.

TABLE 7.—TOTAL DEATHS BY MONTHS DURING THE YEAR 1945.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>North-West Frontier Province.</b>												
Punjab . . . . .	4,278	3,498	3,270	2,738	2,579	2,721	2,618	2,294	2,545	2,697	3,096	3,864
Delhi . . . . .	65,236	49,766	47,975	41,692	43,705	48,011	41,786	44,728	47,211	50,267	53,127	54,840
United Provinces . . . . .	1,408	1,057	1,370	1,408	1,603	1,889	1,290	1,794	1,893	1,906	1,638	1,490
Bihar . . . . .	75,667	67,140	82,551	90,197	119,023	127,512	99,018	96,407	91,994	88,272	79,658	81,576
Orissa . . . . .	62,897	43,413	53,853	64,739	78,906	94,888	81,975	68,937	62,987	60,488	54,997	64,123
Bengal . . . . .	20,153	17,697	19,507	18,389	19,677	18,049	17,389	18,232	15,607	16,902	16,613	19,398
Central Provinces . . . . .	131,204	109,873	122,984	116,787	107,341	84,011	78,052	75,627	81,409	95,683	115,563	119,599
Bombay . . . . .	40,131	35,373	44,146	46,603	55,840	60,480	52,847	86,904	84,003	67,734	57,010	51,786
Sind . . . . .	44,783	38,720	45,338	44,224	48,497	44,267	51,717	61,852	54,794	49,650	50,526	50,534
Madras . . . . .	6,374	4,333	4,205	3,602	3,626	3,353	3,203	3,278	3,135	3,338	3,602	4,343
Coorg . . . . .	116,456	96,154	97,032	85,793	92,942	87,167	92,914	100,179	97,026	89,959	86,792	100,967
Assam . . . . .	349	322	252	230	290	261	339	232	228	213	203	229
Ajmer-Merwara . . . . .	13,335	10,621	9,759	9,906	11,117	11,724	12,015	10,005	10,690	11,049	12,186	12,129
British India . . . . .	1,435	1,409	1,460	1,319	1,295	1,148	920	1,256	1,414	1,106	943	1,255
	563,706	479,876	539,706	527,717	591,441	585,481	536,083	571,725	554,696	537,264	535,954	596,077



TABLE 8 DEATHS BY MONTH IN RURAL AREAS DURING THE YEAR 1915.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Nov.	Dec.
North-West Frontier Province.	3,791	3,126	1,927	2,388	2,202	2,213	2,168	1,889	2,168	2,274	3,421
Punjab . . . . .	58,371	44,700	2,819	36,459	42,495	41,466	35,819	37,296	40,188	43,628	48,068
Delhi . . . . .	484	330	424	429	449	464	368	337	406	483	459
United Provinces . . . . .	63,092	57,267	9,089	75,163	100,284	108,858	86,128	79,335	74,618	70,150	68,283
Bihar . . . . .	61,829	42,496	7,534	62,998	77,151	93,252	80,433	67,163	61,288	58,991	62,547
Orissa . . . . .	19,558	17,092	8,788	17,836	19,185	17,572	16,676	17,634	15,052	16,410	18,811
Bengal . . . . .	120,728	101,390	3,339	10	100,121	77,921	71,642	69,073	75,136	88,812	108,511
Central Provinces . . . . .	35,746	31,949	8,939	15	48,793	51,046	47,003	76,638	75,444	60,626	45,931
Bombay . . . . .	32,999	28,373	3,014	83	35,964	33,554	39,345	46,484	40,979	37,160	37,372
Sind . . . . .	4,254	2,904	2,693	13	2,174	2,025	1,942	1,871	1,807	2,050	2,253
Madras* . . . . .	102,414	84,116	85,313	148	82,008	77,631	83,126	89,843	87,153	99,973	89,316
Coorg . . . . .	292	269	206		231	216	282	187	181	173	174
Assam . . . . .	12,874	10,390	9,525	9,696	10,842	11,507	11,762	9,758	0,408	10,846	11,863
Ajmer-Merwara . . . . .	980	1,067	1,078	852	847	710	521	745	874	620	811
British India . . . . .	417,392	425,439	475,688		522,716	521,795	470,215			72,196	501,428

\*War districts excluding municipal

hence total differs from the c

3.

# TABLE V. CENSUS OF MUNICIPAL AREAS DURING THE YEAR 1945.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North West Frontier Province.												
Punjab . . . . .	487	372	343	350	377	508	450	405	377	423	441	443
	6,865	6,066	5,156	5,233	6,210	6,545	5,967	7,432	7,023	6,639	6,745	6,772
Delhi . . . . .	944	727	946	979	1,154	1,425	922	1,457	1,287	1,423	1,090	950
United Provinces . . . . .	12,575	9,873	13,462	15,034	18,739	18,654	12,890	17,072	17,346	16,122	13,983	13,293
Bihar . . . . .	1,068	917	1,324	1,741	1,753	1,636	1,542	1,774	1,699	1,497	1,580	1,581
Orissa . . . . .	595	605	718	554	492	477	713	598	555	492	466	587
Bengal . . . . .	10,476	8,513	9,645	8,577	7,220	6,090	6,410	6,554	6,273	6,871	7,052	7,991
Central Provinces . . . . .	4,385	3,924	5,210	5,478	7,047	6,074	5,844	10,266	8,559	7,108	6,105	5,855
Bombay . . . . .	11,784	10,347	12,324	12,241	12,533	10,713	12,372	15,368	13,805	12,490	12,418	12,156
Sind . . . . .	2,120	1,429	1,512	1,389	1,452	1,328	1,261	1,407	1,328	1,288	1,349	1,587
Madras . . . . .	14,042	12,038	11,719	10,645	10,934	9,536	9,788	10,336	9,873	9,986	10,061	11,671
Coorg . . . . .	57	53	46	40	59	45	57	45	47	40	28	55
Assam . . . . .	461	231	234	210	275	217	253	247	282	203	257	266
Ajmer-Merwara . . . . .	455	342	382	467	448	438	399	511	540	486	407	444
British India . . . . .	66314	54,437	63,021	62,938	68,695	63,686	58,868	73,472	68,994	65,068	61,982	64,651

\* For municipalities only and not all urban areas.

TABLE 10.—TOTAL DEATHS BY AGE AND SEX DURING THE YEAR 1945.

	Under one Year.				1—5 Years				5—10 Years				10—15 Years				15—20 Years			
	Male		Female		Persons		Male		Female		Persons		Male		Female		Persons		Male	
	Persons	Male	Female	Persons	Male	Female	Persons	Male	Female	Persons	Male	Female	Persons	Male	Female	Persons	Male	Female	Persons	Male
North-West Frontier Province .	6,365	3,765	2,600	4,378	2,337	2,041	2,500	1,406	1,094	2,112	1,141	971	2,107	1,126	981	2,107	1,126	981	2,107	1,126
Punjab .	159,995	87,933	72,062	99,392	53,670	45,722	35,228	19,180	16,048	28,016	14,572	13,444	27,444	13,838	13,606	27,444	13,838	13,606	27,444	13,838
Delhi .	5,688	3,010	2,678	2,827	1,443	1,384	693	368	325	614	323	291	674	268	406	674	268	406	674	268
United Provinces .	194,761	109,127	85,634	208,684	113,625	95,059	67,863	37,323	30,540	48,232	26,636	21,596	41,670	22,017	19,653	41,670	22,017	19,653	41,670	22,017
Bihar .	88,479	48,727	39,752	136,964	71,691	65,373	60,476	33,345	27,131	33,515	19,988	13,527	28,779	17,054	12,725	28,779	17,054	12,725	28,779	17,054
Orissa .	38,053	20,161	17,892	33,027	16,575	16,452	14,240	7,437	6,803	8,784	4,644	4,110	10,072	4,826	5,248	10,072	4,826	5,248	10,072	4,826
Bengal .	186,355	101,588	84,767	175,603	88,346	87,257	112,490	58,439	54,051	54,599	31,924	22,675	57,715	26,284	21,431	57,715	26,284	21,431	57,715	26,284
Central Provinces .	175,444	94,371	81,073	135,853	73,467	62,386	40,375	21,674	18,701	23,814	12,568	11,246	23,772	11,414	12,358	23,772	11,414	12,358	23,772	11,414
Bombay .	120,343	63,921	56,422	111,530	56,238	55,292	33,292	16,449	16,843	20,177	10,042	10,135	19,259	8,926	10,333	19,259	8,926	10,333	19,259	8,926
Sind .	6,753	3,703	3,050	5,289	2,901	2,388	2,899	1,608	1,293	2,163	1,262	901	2,278	1,209	1,069	2,278	1,209	1,069	2,278	1,209
Madras .	256,176	137,160	119,016	181,541	90,563	90,978	57,609	28,640	28,969	36,137	17,650	18,487	37,650	16,611	21,039	37,650	16,611	21,039	37,650	16,611
Coorg .	408	223	185	225	115	110	156	89	67	192	101	91	233	129	104	233	129	104	233	129
Assam .	22,008	11,865	10,153	19,217	9,964	9,253	10,741	5,671	5,070	6,779	3,727	3,052	7,626	3,620	4,006	7,626	3,620	4,006	7,626	3,620
Ajmer-Merwara .	3,139	1,696	1,443	2,776	1,435	1,341	653	332	321	520	267	253	522	237	285	522	237	285	522	237
British India	1,263,967	687,240	576,727	1,117,306	582,270	535,036	439,215	231,95	207,256	265,624	144,845	120,779	260,801	127,559	123,243	260,801	127,559	123,243	260,801	127,559

	20—30 Years				30—40 Years				40—50 Years				50—60 Years				60 Years and over.			
	Persons		Male		Persons		Male		Persons		Male		Persons		Male		Persons		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
North-West Frontier Province . . . . .	8,384	1,708	1,676	3,442	1,803	1,639	3,077	1,688	1,389	1,389	1,852	1,263	5,718	3,357	2,361					
Punjab . . . . .	38,633	18,516	20,117	37,383	18,870	18,513	39,591	21,236	18,355	41,843	22,976	18,868	85,819	47,976	37,844					
Delhi . . . . .	1,593	622	971	1,406	499	906	1,122	638	484	1,045	627	418	2,960	1,626	1,334					
United Provinces . . . . .	85,613	42,490	43,122	97,745	45,042	42,703	85,761	49,031	36,720	87,525	51,374	36,161	189,141	105,097	84,044					
Bihar . . . . .	78,147	41,648	36,499	82,179	45,573	36,806	72,921	42,541	30,380	74,982	40,794	34,188	139,620	71,069	68,551					
Orissa . . . . .	21,627	10,213	11,414	21,271	10,901	10,370	18,156	9,846	8,309	19,696	9,915	9,781	32,717	15,448	17,269					
Bengal . . . . .	145,223	60,735	84,488	126,979	66,587	60,292	110,889	64,256	46,633	99,464	56,384	43,050	168,516	90,473	78,343					
Central Provinces . . . . .	50,486	21,939	28,547	47,892	23,706	24,186	40,476	22,489	17,787	40,340	21,099	18,641	104,555	50,650	54,408					
Bombay . . . . .	43,983	19,504	24,479	42,141	21,206	20,935	38,679	22,188	16,491	44,625	25,931	18,694	110,813	55,766	55,045					
Sind . . . . .	4,918	2,513	2,405	5,155	2,893	2,262	4,702	2,979	1,723	4,167	2,790	1,407	8,038	4,790	3,248					
Madras . . . . .	78,681	33,574	45,107	79,633	37,595	41,763	79,937	45,007	34,930	81,240	45,753	35,587	254,672	124,077	130,595					
Coorg . . . . .	268	192	186	445	258	187	384	236	148	371	227	144	366	210	186					
Assam . . . . .	14,324	6,019	8,305	14,072	7,795	6,978	11,422	6,487	4,935	9,086	4,902	4,184	18,240	10,079	8,161					
Almer-Marwars . . . . .	1,23	584	648	1,281	654	607	1,186	706	480	1,146	751	496	2,424	1,277	1,147					
British India.	968,318	360,947	307,863	651,629	262,982	263,047	508,293	269,528	218,764	508,276	285,974	222,902	1,124,323	691,636	542,893					

TABLE II.—DEATHS BY AGE AND SEX IN RURAL AREAS DURING THE YEAR 1945.

	Under one Year			1—5 Years.			5—10 Years.			10—15 Years.			15—20 Years.		
	Persons	Male	Female	Persons	Male	Female	Persons	Male	Female	Persons	Male	Female	Persons	Male	Female
North-West Frontier Provinces	5,406	3,200	2,206	3,660	1,974	1,686	2,237	1,261	976	1,843	1,015	828	1,800	1,000	800
Punjab . . . . .	136,998	76,019	60,979	87,099	47,564	39,535	31,575	17,280	14,295	24,924	13,218	11,706	24,044	12,308	11,736
Delhi . . . . .	1,437	774	663	716	414	302	224	114	110	179	108	71	168	84	84
United Provinces	145,884	82,543	63,341	174,068	96,226	77,842	58,287	32,518	25,769	41,894	23,661	18,233	35,223	19,519	15,704
Bihar . . . . .	86,169	47,395	38,774	134,493	70,251	64,242	59,159	32,618	26,502	32,559	19,461	13,098	28,740	16,496	12,244
Orissa . . . . .	907	19,529	17,378	32,290	16,199	16,091	13,835	7,247	6,618	8,527	4,512	4,015	9,394	4,705	5,099
Bengal . . . . .	170,920	93,390	77,530	164,535	82,924	81,611	107,234	55,792	51,442	51,451	30,189	21,262	53,137	33,933	29,204
Central Provinces	155,282	83,685	71,697	119,785	64,545	55,240	36,314	19,640	16,674	20,989	11,217	9,772	20,592	10,057	10,535
Bombay . . . . .	85,273	55,317	39,956	82,529	41,892	40,637	26,683	13,220	13,463	15,832	7,990	7,842	14,111	6,631	7,480
Sind . . . . .	2,707	153	1,173	2,927	1,670	1,257	2,181	1,247	941	1,621	973	678	1,586	868	698
Madras . . . . .	212,810	113,697	99,113	151,028	75,703	75,325	48,731	24,177	24,554	37,793	15,101	15,183	51,200	3,948	17,253
Coorg . . . . .	390	212	178	199	101	98	138	76	62	169	87	83	213	118	95
Assam . . . . .	21,451	11,546	9,905	18,870	9,810	9,060	10,651	5,575	4,976	6,632	3,633	2,990	17,473	3,545	3,528
Ajmer-Merwar	1,593	879	714	1,665	864	771	468	242	226	384	109	175	361	185	176
British India . . . . .	1,063,363	580,010	483,343	974,464	510,167	464,297	397,638	211,650	186,608	237,797	131,283	106,515	228,453	113,427	115,026

	20—30 Years			30—40 Years			40—50 Years			50—60 Years			60 Years & Over.	
	Persons.	Male.	Female.	Persons.	Male.	Female.	Persons.	Male.	Female.	Persons.	Male.	Female.	Male.	Female.
North-West Frontier Province.	2,928	1,490	1,438	3,036	1,536	1,440	2,703	1,472	1,231	2,719	1,600	1,119	4,890	1,991
Punjab . .	33,072	16,140	16,932	32,928	16,634	16,244	33,189	18,795	16,394	37,249	20,345	16,904	74,613	32,879
Dalhi . .	412	176	236	610	167	449	431	224	207	355	213	142	808	343
United Provinces,	71,918	37,448	34,470	77,011	40,145	36,866	75,933	42,576	32,357	77,593	45,553	32,040	100,131	70,737
Bihar . .	76,053	40,587	35,466	80,320	44,463	35,857	71,453	41,657	29,793	73,431	39,837	33,594	136,771	67,251
Orissa . .	1,016	9,894	11,122	20,631	10,540	10,091	17,433	9,431	8,052	18,963	9,498	9,477	31,274	19,534
Bengal . .	132,793	53,635	79,158	125,130	63,398	59,731	102,711	58,766	43,945	91,961	51,733	40,229	154,530	71,130
Central Provinces	44,486	19,453	25,033	42,360	21,319	21,541	36,334	20,444	15,890	36,324	19,406	10,918	94,526	48,439
Bombay . .	30,995	13,476	17,519	30,916	15,268	15,648	29,032	16,108	12,924	33,752	19,019	14,733	86,159	43,073
Sind . .	3,162	1,635	1,527	3,670	2,018	1,652	3,275	2,032	1,243	2,809	1,809	1,000	5,004	1,894
Madras . .	60,123	24,224	35,899	64,288	30,203	31,085	64,629	35,920	28,896	66,156	36,479	29,677	212,605	108,986
Coorg . .	273	127	146	313	168	145	286	161	125	289	165	124	308	132
Assam . .	13,939	6,797	8,112	13,737	6,875	6,862	11,150	6,276	4,874	15,861	5,749	10,112	17,736	7,904
Pinne-Morwara	913	473	440	956	500	456	854	514	340	896	531	365	1,551	709
British India .	492,083	224,555	267,528	496,421	268,334	228,087	451,460	255,276	196,184	458,353	251,925	206,433	980,953	472,010

TABLE 12.—DEATHS BY AGE AND SEX IN URBAN AREAS DURING THE YEAR 1945.

	Under one Year.				1—5 Years				5—10 Years.				10—15 Years.				15—20 Years.			
	Persons		Male		Female		Persons		Male		Female		Persons		Male		Persons		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
North-West Frontier Province.	959	565	394	718	363	355	263	145	118	269	126	143	307	126	126	181				
Punjab . . . . .	22,097	11,914	11,083	12,293	6,100	6,187	3,653	1,600	1,753	3,092	1,354	1,738	3,460	1,636	1,870					
Delhi . . . . .	4,251	2,236	2,615	2,111	1,029	1,082	469	254	215	435	215	220	1,106	734	322					
United Provinces . . . . .	48,877	26,584	22,295	34,616	17,399	17,217	9,576	4,805	4,771	6,338	2,975	3,363	6,447	2,498	2,949					
Bihar . . . . .	2,310	1,332	978	2,481	1,350	1,131	1,346	717	269	956	527	429	1,039	558	481					
Orissa . . . . .	1,146	632	514	737	376	361	375	190	185	227	132	95	268	121	147					
Bengal . . . . .	15,435	8,196	7,237	11,068	5,422	5,646	5,256	2,647	2,809	3,148	1,735	1,413	4,578	2,351	2,227					
Central Provinces . . . . .	20,062	10,680	9,376	16,063	8,922	7,146	4,061	2,034	2,027	2,825	1,351	1,474	3,180	1,357	1,823					
Bombay . . . . .	35,070	18,604	16,466	29,001	14,346	14,655	6,659	3,279	3,380	4,345	2,052	2,293	5,148	2,295	2,853					
Sind . . . . .	4,046	2,169	1,877	2,362	1,231	1,131	718	366	352	542	289	253	692	311	381					
Madras . . . . .	43,340	23,173	20,157	29,913	14,860	15,053	8,878	4,463	4,415	5,344	2,640	2,704	6,450	2,663	3,787					
Coorg . . . . .	18	11	7	26	14	12	18	13	5	23	15	8	20	11	9					
Assam . . . . .	557	309	248	347	154	193	190	96	94	147	94	53	153	75	78					
Ajmer-Merwara . . . . .	1,546	817	723	1,111	541	570	185	90	95	139	58	78	161	52	109					

	20—30 Years.			30—40 Years.			40—50 Years.			50—60 Years.			60 Years & over.		
	Persons.	Male.	Female.	Persons.	Male.	Female.	Persons.	Male.	Female.	Persons.	Male.	Female.	Persons.	Male.	Female.
North-West Frontier Province.	456	218	238	406	207	199	374	216	158	396	252	144	828	458	370
Punjab . . . . .	5,561	2,376	3,185	4,455	2,186	2,269	4,402	2,441	1,961	4,594	2,630	1,964	11,206	6,241	4,965
Delhi . . . . .	1,181	446	735	795	338	457	691	414	277	690	414	276	2,152	1,164	988
United Provinces . . . . .	13,695	5,042	8,653	10,734	4,897	5,837	9,818	5,455	4,363	9,932	5,821	4,111	29,011	15,703	13,307
Bihar . . . . .	2,094	1,061	1,033	1,859	1,110	749	1,568	984	584	1,546	952	594	2,849	1,549	1,300
Orissa . . . . .	611	319	292	640	361	279	672	415	257	733	429	304	1,443	708	735
Bengal . . . . .	12,430	7,100	5,330	9,840	6,199	3,641	8,178	5,490	2,688	7,503	4,651	2,852	14,236	7,023	7,213
Central Provinces . . . . .	6,000	2,486	3,514	5,032	2,387	2,645	4,142	2,245	1,897	4,016	2,253	1,723	10,469	4,503	5,966
Bombay . . . . .	12,928	6,026	6,900	11,225	5,938	5,287	9,647	6,080	3,567	10,872	6,912	3,961	30,649	12,688	17,961
Sind . . . . .	1,756	878	878	1,485	875	610	1,427	947	480	1,388	981	407	3,034	1,680	1,354
M. R. . . . .	16,558	7,350	9,208	15,370	7,692	7,678	15,311	9,187	6,124	15,184	9,274	5,910	41,474	20,465	21,009
Coorg . . . . .	95	55	40	132	90	42	98	75	23	82	62	20	60	36	24
Assam . . . . .	385	222	163	336	220	116	292	211	81	225	153	72	504	247	257
Ajmer-Merwara . . . . .	319	111	208	305	154	151	332	192	140	351	220	131	870	435	435
British India . . . . .	74,069	33,692	40,377	62,614	32,654	29,960	56,952	34,352	22,600	57,513	35,044	22,469	148,784	72,900	75,884



TABLE 13.—INFANTILE MORTALITY IN RURAL AND URBAN AREAS.

					Total.		Rural.		Urban.	
					Deaths.	Rate p.m. of live births.	Deaths.	Rate p.m. of live births.	Deaths	Rate p.m. of live births
<b>NORTH WEST FRONTIER PROVINCE.</b>										
1937-43—										
Max.	.	.	.	.	11,090	166.1	9,705	172.0	1,389	138.6
Med.	.	.	.	.	10,173	144.2	8,391	147.4	1,242	124.5
Min.	.	.	.	.	7,016	132.5	6,077	137.7	939	106.5
1940	.	.	.	.	10,173	144.2	8,931	147.4	1,242	124.5
1941	.	.	.	.	10,497	166.1	9,213	172.0	1,284	133.3
1942	.	.	.	.	7,777	145.8	6,770	151.4	1,007	116.8
1943	.	.	.	.	7,016	132.5	6,077	137.7	939	106.5
1944	.	.	.	.	7,035	128.6	5,968	132.9	1,067	108.7
1945	.	.	.	.	6,365	116.9	5,408	122.3	959	93.8
<b>PUNJAB.</b>										
1937-43—										
Max.	.	.	.	.	227,704	213.6	201,346	217.4	26,358	138.7
Med.	.	.	.	.	191,508	178.2	171,796	167.0	23,386	171.7
Min.	.	.	.	.	177,835	163.0	156,964	162.1	20,871	170.9
1940	.	.	.	.	200,925	178.2	177,539	178.3	23,386	177.7
1941	.	.	.	.	209,010	185.2	184,306	186.1	24,704	178.6
1942	.	.	.	.	227,704	213.6	201,346	217.4	26,358	138.7
1943	.	.	.	.	181,803	190.0	158,014	192.3	23,769	173.2
1944	.	.	.	.	191,191	173.1	165,035	173.4	26,156	171.6
1945	.	.	.	.	159,995	145.1	136,998	145.5	22,997	143.0
<b>DELHI.</b>										
1937-43—										
Max.	.	.	.	.	6,384	177.9	2,345	219.3	4,381	171.6
Med.	.	.	.	.	5,458	160.0	1,794	159.8	3,610	156.1
Min.	.	.	.	.	5,110	149.7	1,515	184.0	3,316	150.3
1940	.	.	.	.	5,458	160.9	1,848	171.2	3,610	156.1
1941	.	.	.	.	6,101	164.1	1,792	159.8	4,314	166.0
1942	.	.	.	.	6,384	177.9	2,345	219.3	4,039	169.2
1943	.	.	.	.	5,896	174.6	1,515	184.0	4,381	171.6
1944	.	.	.	.	6,115	163.4	1,516	165.0	4,599	162.9
1945	.	.	.	.	5,688	138.8	1,417	137.6	4,271	139.3
<b>UNITED PROVINCES.</b>										
1937-43—										
Max.	.	.	.	.	264,689	148.6	213,720	137.6	50,969	204.7
Med.	.	.	.	.	227,904	143.1	181,481	126.1	49,422	199.7
Min.	.	.	.	.	188,066	134.6	141,973	120.6	45,979	190.6
1940	.	.	.	.	227,460	135.3	181,481	126.1	45,979	190.6
1941	.	.	.	.	232,486	131.2	181,784	119.8	50,702	199.3
1942	.	.	.	.	227,994	143.1	177,069	131.3	50,925	208.1
1943	.	.	.	.	188,066	134.6	141,973	120.6	46,093	209.1
1944	.	.	.	.	178,823	124.5	135,214	111.8	43,609	192.6
1945	.	.	.	.	194,761	123.2	145,884	110.7	48,877	185.6
<b>BIHAR.</b>										
1937-43—										
Max.	.	.	.	.	133,788	119.9	130,669	119.8	3,835	137.9
Med.	.	.	.	.	118,444	117.7	115,457	117.6	2,987	125.1
Min.	.	.	.	.	74,921	98.7	73,345	99.0	1,576	88.9
1940	.	.	.	.	118,444	117.7	115,457	117.6	2,987	125.1
1941	.	.	.	.	114,522	109.0	112,110	108.9	2,412	114.2
1942	.	.	.	.	94,858	106.4	92,529	105.9	2,329	128.7
1943	.	.	.	.	74,921	98.7	73,345	99.0	1,576	88.9
1944	.	.	.	.	86,443	111.3	84,373	111.2	2,070	116.0
1945	.	.	.	.	88,479	100.1	86,169	99.8	2,310	111.0

# BIRTHS

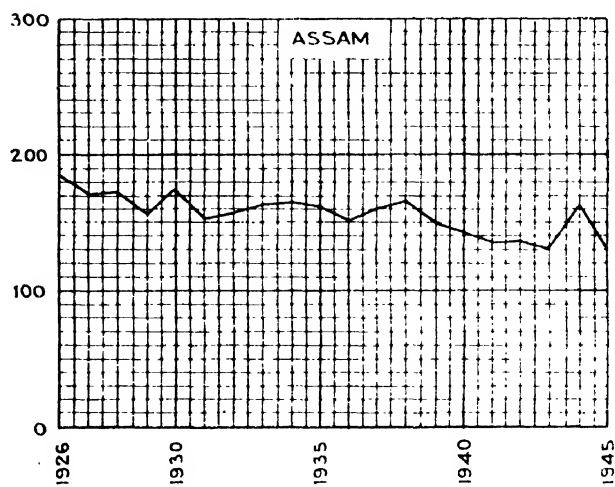
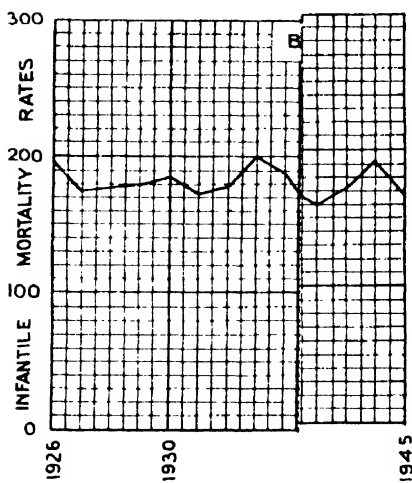
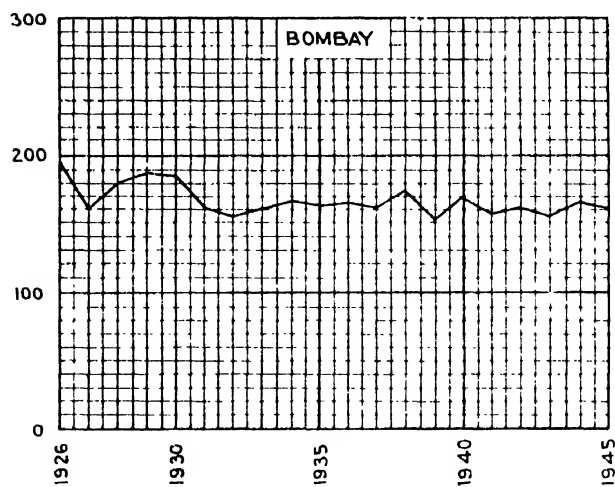
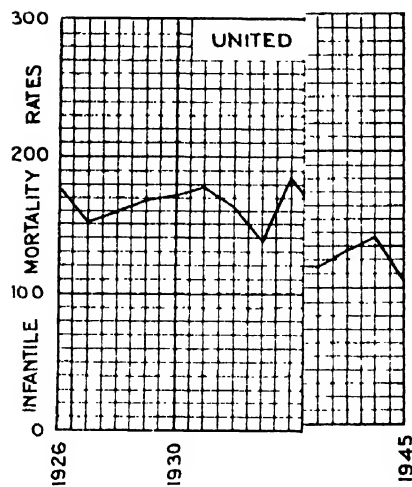
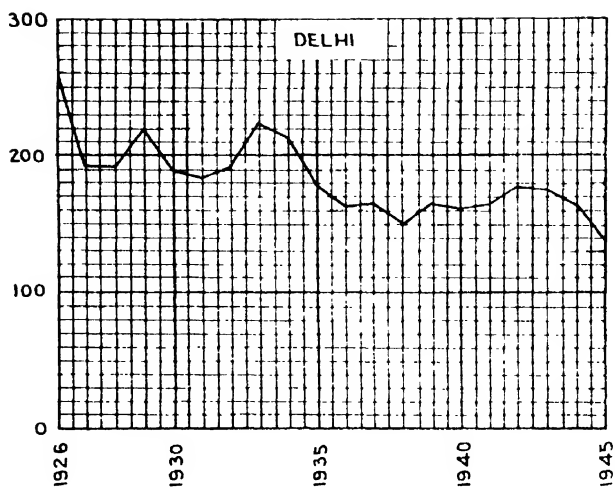
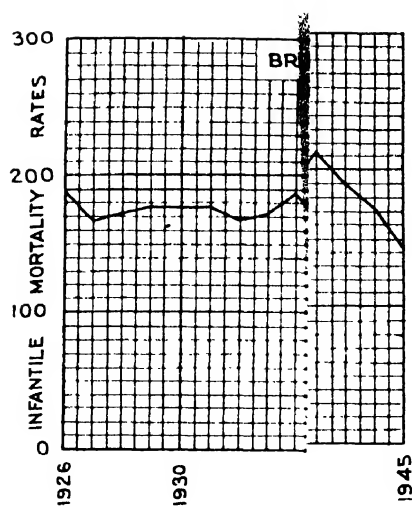




TABLE 13.—INFANTILE MORTALITY IN RURAL AND URBAN AREAS—*contd.*

					Total.		Rural.		Urban.	
					Deaths.	Rate p.m. of live births.	Deaths.	Rate p.m. of live births.	Deaths.	Rate p.m. of live births.
<b>ORISSA.</b>										
1937-43—										
Max.	.	.	.	.	52,988	225.4	52,175	226.1	1,408	199.7
Med.	.	.	.	.	48,763	197.4	47,758	197.9	1,149	167.2
Min.	.	.	.	.	46,014	190.7	44,865	191.3	813	152.8
1940	.	.	.	.	46,426	183.1	45,274	183.6	1,152	164.6
1941	.	.	.	.	52,883	225.4	51,475	226.1	1,408	199.7
1942	.	.	.	.	46,014	190.7	44,865	191.3	1,149	167.2
1943	.	.	.	.	48,009	202.6	46,698	203.1	1,311	187.6
1944	.	.	.	.	40,784	206.7	39,749	209.4	1,035	172.6
1945	.	.	.	.	38,053	178.1	36,907	178.4	1,146	168.2
<b>BENGAL.</b>										
1937-43—										
Max.	.	.	.	.	300,770	184.7	285,110	184.7	16,627	266.5
Med.	.	.	.	.	248,226	155.7	234,067	155.2	14,697	168.2
Min.	.	.	.	.	223,500	154.3	208,371	191.3	10,064	148.2
1940	.	.	.	.	267,894	159.3	253,061	158.8	14,833	168.2
1941	.	.	.	.	248,226	155.7	234,067	155.2	14,159	163.7
1942	.	.	.	.	223,500	154.3	213,436	154.6	10,064	148.2
1943	.	.	.	.	224,998	195.4	208,371	191.3	16,627	266.5
1944	.	.	.	.	198,987	207.9	180,530	201.9	18,457	291.9
1945	.	.	.	.	186,355	143.2	170,920	139.4	15,435	205.4
<b>CENTRAL PROVINCES</b>										
1937-43—										
Max.	.	.	.	.	157,634	238.2	138,992.	238.3	18,778	227.7
Med.	.	.	.	.	141,961	226.1	123,502	219.8	18,057	217.3
Min.	.	.	.	.	130,689	206.1	115,031	207.5	15,658	196.8
1940	.	.	.	.	141,961	226.1	123,502	224.5	18,459	237.2
1941	.	.	.	.	154,204	215.3	136,147	216.2	18,057	208.3
1942	.	.	.	.	155,285	232.3	136,507	232.9	18,778	227.7
1943	.	.	.	.	130,689	206.1	115,031	207.5	15,658	196.8
1944	.	.	.	.	145,037	221.4	128,703	224.0	16,334	203.0
1945	.	.	.	.	175,444	256.0	155,382	260.1	20,062	232.8
<b>BOMBAY.</b>										
1937-43—										
Max.	.	.	.	.	132,100	174.2	101,307	162.5	33,833	228.0
Med.	.	.	.	.	118,425	152.7	89,519	148.8	30,793	202.5
Min.	.	.	.	.	112,323	157.4	80,117	146.8	27,739	185.3
1940	.	.	.	.	128,103	169.5	94,270	160.1	33,833	202.5
1941	.	.	.	.	121,298	159.0	89,557	149.8	31,741	192.2
1942	.	.	.	.	116,333	160.5	87,210	151.8	29,123	193.5
1943	.	.	.	.	112,323	157.4	80,117	146.8	32,206	191.7
1944	.	.	.	.	123,123	166.1	87,223	157.2	35,900	192.5
1945	.	.	.	.	120,343	161.2	85,273	153.4	35,070	183.9
<b>SIND.</b>										
1937-43—										
Max.	.	.	.	.	9,487	121.3	5,132	101.9	4,570	156.8
Med.	.	.	.	.	8,931	114.6	4,677	88.3	4,268	155.7
Min.	.	.	.	.	8,479	105.7	4,124	88.3	3,883	138.9
1940	.	.	.	.	9,487	115.7	4,986	93.9	4,193	155.7
1941	.	.	.	.	8,479	114.6	4,124	92.6	4,355	147.8
1942	.	.	.	.	8,831	114.6	4,565	97.5	4,266	141.1
1943	.	.	.	.	8,700	126.8	4,130	104.6	4,570	156.8
1944	.	.	.	.	9,330	136.0	3,851	103.6	5,488	174.3
1945	.	.	.	.	6,753	103.9	2,707	80.0	4,046	129.9

TABLE 13.—INFANTILE MORTALITY IN RURAL AND URBAN AREAS—*contd.*

	Total.		Rural.		Urban.	
	Deaths.	Rate p.m. of live births.	Deaths.	Rate p.m. of live births.	Deaths.	Rate p.m. of live births.
<b>MADRAS</b>						
1937-43—						
Max.	297,474	175.5	251,849	165.3	46,326	289.3
Med.	286,688	168.7	241,623	157.9	44,875	270.6
Min.	268,895	159.7	224,869	160.6	40,201	252.1
1940	286,688	168.7	241,623	157.9	45,065	265.2
1941	293,462	170.9	247,136	159.7	46,326	273.7
1942	268,895	159.7	228,694	150.0	40,201	252.1
1943	269,744	172.3	224,869	160.6	44,875	270.6
1944	287,542	192.5	238,691	191.8	48,851	195.6
1945	256,176	169.4	212,836	169.1	43,340	170.9
<b>COORG.</b>						
1937-43—						
Max.	893	221.7	861	247.0	32	59.0
Med.	529	139.9	507	157.9	22	38.5
Min.	391	122.2	379	145.4	12	20.3
1940	508	135.3	493	153.3	15	27.8
1941	607	156.9	590	185.6	17	24.7
1942	610	154.7	485	181.1	25	40.4
1943	391	122.2	379	145.4	12	20.3
1944	376	121.2	368	145.3	8	12.5
1945	408	130.9	390	156.9	18	28.6
<b>ASSAM.</b>						
1937-43—						
Max.	39,727	164.7	38,916	165.9	811	121.7
Med.	34,610	141.8	33,863	142.7	746	112.4
Min.	24,392	131.0	23,874	131.7	518	106.2
1940	34,610	141.8	33,863	142.7	747	108.2
1941	34,380	135.9	33,650	137.0	730	99.0
1942	28,271	136.5	27,715	137.3	556	205.4
1943	24,392	131.0	23,874	131.7	518	106.2
1944	26,929	162.0	26,333	163.4	596	116.5
1945	22,008	130.5	21,451	131.6	557	98.6
<b>AJMER-MERWARA.</b>						
1937-43—						
Max.	5,201	316.3	2,671	315.1	2,569	
Med.	4,284	211.5	1,954	157.7	2,224	
Min.	3,123	177.1	1,355	181.3	1,791	
1940	5,201	316.3	2,632	315.1	2,569	
1941	3,123	177.1	1,355	181.3	1,791	
1942	4,284	211.5	2,060	181.0	2,224	
1943	3,146	208.6	1,355	181.3	1,791	
1944	3,609	208.4	1,464	154.7	2,145	
1945	3,139	173.4	1,593	163.3	1,546	
<b>BRITISH INDIA.</b>						
1937-43—						
Max.	1,570,196	167.1	1,373,392	164.2	2,021,366	
Med.	1,483,338	159.8	1,284,963	154.8	194,346	
Min.	1,280,094	164.7	1,085,748	158.7	190,833	
1940	1,483,338	159.8	1,284,963	154.8	198,375	
1941	1,489,283	158.0	1,287,147	152.9	202,136	
1942	1,416,640	162.6	1,225,596	157.8	191,044	
1943	1,280,094	164.7	1,085,748	158.7	194,346	
1944	1,305,333	169.3	1,099,018	165.5	206,315	
1945	1,263,967	150.9	1,063,333	147.1	200,634	

TABLE 14.—INFANTILE MORTALITY RATE IN CERTAIN TOWNS IN BRITISH INDIA  
DURING THE YEAR 1945.

Towns		Rate p.m. of live births.	Towns		Rate p.m. of live births
NORTH-WEST FRONTIER PROVINCE			United Provinces—contd		
Chhawar . . . . .		120.0	Shahjahanpur . . . . .		154.2
Aradan . . . . .		88.3	Pilibhit . . . . .		255.4
Chahat . . . . .		68.7	Farrukhabad . . . . .		
Channu . . . . .		97.4	Cum-Fatehgarh . . . . .		256.5
Chera Ismail Khan . . . . .		78.5	Etawah . . . . .		348.9
PUNJAB			Cawnpore . . . . .		266.4
Chissar . . . . .		170.6	Allahabad . . . . .		190.6
Chiwani . . . . .		151.8	Jhansi . . . . .		250.8
Chotak . . . . .		119.5	Benares . . . . .		253.4
Chowari . . . . .		130.2	Mirzapur—		
Charnal . . . . .		172.2	Bindhachal . . . . .		166.8
Chaniapat . . . . .		206.7	Jaunpur . . . . .		140.1
Chambala . . . . .		103.2	Gorakhpur . . . . .		189.3
Choshiarpur . . . . .		123.2	Lucknow . . . . .		204.7
Chullundur . . . . .		138.4	Fyzabad-Ajodhya . . . . .		114.7
Chudhiana . . . . .		119.9	Bahraich . . . . .		121.7
Chrozepore . . . . .		173.6	Sitapur . . . . .		230.3
Chahore . . . . .		126.2	Ferozabad . . . . .		172.3
Chasur . . . . .		183.2	Ghazipur . . . . .		158.1
Chamitsar . . . . .		162.9	Balrampur . . . . .		170.0
Chatala . . . . .		126.4	Hapur . . . . .		147.3
Chalkot . . . . .		116.2	BIHAR		
Chazilka . . . . .		175.2	Patna . . . . .		115.0
Chujranwala . . . . .		219.1	Gaya . . . . .		353.7
Chujrat . . . . .		68.6	Arrah . . . . .		390.5
Chargodha . . . . .		138.4	Chapra . . . . .		104.5
Chawalpindi . . . . .		119.0	Bettiah . . . . .		45.6
Chontgomery . . . . .		105.7	Muzzaffarpur . . . . .		107.9
Chyallpur . . . . .		149.5	Darbhanga . . . . .		70.0
Choga . . . . .		170.9	Monghyr . . . . .		98.4
Chhang-Maghiana . . . . .		215.4	Jamalpur . . . . .		120.6
Chhiniot . . . . .		178.9	Ranchi . . . . .		93.4
Chhultan . . . . .		189.1	Purulia . . . . .		17.5
Chholum . . . . .		108.2	Jamshedpur . . . . .		70.1
Ch. G. Khan . . . . .		163.5	ORISSA		
Chhazirabad . . . . .		114.3	Berhampur . . . . .		102.1
DELHI			Cuttack . . . . .		156.3
Delhi City . . . . .		154.0	Puri . . . . .		291.1
Deew Delhi . . . . .		82.0	BENGAL PRESIDENCY		
UNITED PROVINCES			Asansol . . . . .		71.8
Dehra Dun . . . . .		166.9	Bankura . . . . .		72.3
Deharanpur . . . . .		148.4	Hooghly-Chinsura . . . . .		125.6
Dehrawar Union . . . . .		258.0	Serampur . . . . .		202.9
Dehazaffarnagar . . . . .		193.0	Howrah . . . . .		347.8
Deherut . . . . .		122.3	South Suburban . . . . .		288.2
Dehurja . . . . .		184.9	Beranagar . . . . .		221.7
Dehigarh . . . . .		160.7	Titagarh . . . . .		170.2
Dehathras . . . . .		259.0	Naihati . . . . .		92.4
Dehutta . . . . .		147.9	Bhatpara . . . . .		269.3
Dehagra . . . . .		169.6	Calcutta . . . . .		288.6
Deharcilly . . . . .		177.3	Sirajganj . . . . .		550.0
Dehudaun . . . . .		235.1	Dacca . . . . .		187.7
Dehradabad . . . . .		174.2	Narayanganj . . . . .		193.1
Dehroha . . . . .		230.6	Mymensingh . . . . .		329.1
Dehbhal . . . . .		163.7	Barisal . . . . .		180.1
13PHC			Chittagong . . . . .		142.8
			Burdwan . . . . .		21.5
			Midnapur . . . . .		32.3
			Champdani . . . . .		44.9

TABLE 14.—INFANTILE MORTALITY RATE IN CERTAIN TOWNS IN BRITISH INDIA  
DURING THE YEAR 1945—*contd.*

Towns	Rate p.m. of live births.	Towns	Rate p.m. of live births
<b>BENGAL PRESIDENCY—<i>contd.</i></b>		<b>BOMBAY PRESIDENCY—<i>contd.</i></b>	
Bally . . . . .	104.8	Bhusawal . . . . .	98.8
Tollygunj . . . . .	31.9	Kalyan . . . . .	103.8
Garden Reach . . . . .	191.3	Pandharpur . . . . .	312.0
Budge-Budge . . . . .	180.1	Barsi . . . . .	211.6
Kamarhati . . . . .	35.7	Dharwar . . . . .	66.2
Krishnagar . . . . .	72.0	Hubli . . . . .	52.2
Nabadwip . . . . .	128.1	Satara . . . . .	171.9
Berhampur . . . . .	123.0		
Khulna . . . . .	125.7	<b>SIND</b>	
Rajshahi . . . . .	97.4	Karachi . . . . .	106.8
Rangpur . . . . .	41.5	Hyderabad . . . . .	221.3
Pabna . . . . .	85.0	Sukkur . . . . .	90.2
Comilla . . . . .	28.2	Shikarpur . . . . .	147.8
Brahmanbaria . . . . .	65.0		
Chandpur . . . . .	37.9	<b>MADRAS PRESIDENCY</b>	
<b>CENTRAL PROVINCES</b>		Bellary . . . . .	138.4
Nagpur . . . . .	275.1	Adoni . . . . .	114.1
Jubbulpore . . . . .	264.9	Conjeevaram . . . . .	159.2
Saugor . . . . .	143.0	Saidapet . . . . .	181.3
Khandwa . . . . .	261.5	Coimbatore . . . . .	187.2
Burhanpur . . . . .	222.2	Erode . . . . .	175.4
Raipur . . . . .	167.3	Cocanada . . . . .	162.0
Bilaspur . . . . .	186.7	Rajahmundry . . . . .	177.6
Amraoti . . . . .	126.7	Guntur . . . . .	159.9
Akola . . . . .	212.4	Tenali . . . . .	149.8
Wardha . . . . .	172.8	Bezwada . . . . .	131.2
Hinganghat . . . . .	234.1	Masulipatam . . . . .	163.9
Chanda . . . . .	231.0	Madras . . . . .	213.8
Ellichpur . . . . .	238.5	Madura . . . . .	198.0
<b>BOMBAY PRESIDENCY</b>		Dindigul . . . . .	172.2
Bombay . . . . .	190.4	Calicut . . . . .	133.8
Jalgaon . . . . .	143.3	Palghat . . . . .	175.6
Dhulia . . . . .	161.2	Cannanore . . . . .	204.6
Surat . . . . .	307.5	Tellicherry . . . . .	223.5
Broach . . . . .	102.2	Nellore . . . . .	183.7
Nadiad . . . . .	184.2	Vellore . . . . .	192.5
Godhra . . . . .	152.0	Virudhunagar . . . . .	169.3
Ahmedabad . . . . .	186.5	Srivilliputtur . . . . .	159.2
Ahmednagar . . . . .	122.5	Salem . . . . .	105.5
Poona . . . . .	319.7	Cuddalore . . . . .	155.0
Nasik . . . . .	204.9	Tanjore . . . . .	156.1
Malegaon . . . . .	88.0	Kumbakonam . . . . .	215.2
Bandra . . . . .	129.7	Negapatam . . . . .	204.9
Kurla . . . . .	139.7	Mayavaram . . . . .	194.9
Belgaum . . . . .	87.6	Tuticorin . . . . .	209.6
Gadag-Betigeri . . . . .	111.6	Tinnevely . . . . .	219.9
Bijapur . . . . .	48.8	Palamcottah . . . . .	169.5
Sholapur . . . . .	202.2	Trichinopoly . . . . .	158.9
Amalner . . . . .	154.7	Vizagapatam . . . . .	123.2
		Vizianagram . . . . .	189.2
		<b>AJMER-MERWARA</b>	
		Ajmer . . . . .	170.3
		Beawar . . . . .	244.8

TABLE 15.—VITAL STATISTICS FOR INDIAN STATES DURING THE YEAR 1945.

State.	Estimated population.	Births.	Birth rate per mille.	Deaths	Death rate per mille.	Deaths under one year	Infantile mortality per 1000 births.
<b>HYDERABAD STATE.</b>	17,17,162,903	142,770	8.3	157,665	9.2	18,558	132.1
<b>MADRAS STATES.</b>							
Cochin†	1,517,282	21,113	13.9	10,969	7.2	1,288	61.0
Travancore	6,492,106	133,693	20.6	66,635	10.3	9,187	68.7
<b>RAJPUTANA STATES.</b>							
Jodhpur	140,756	1,924	13.7	2,112	15.0	289	150.2
Dholpur	300,738	1,314	4.4	1,038	3.5	77	68.6
<b>EASTERN STATES.</b>							
Daspalla	58,352	2,255	38.6	1,942	33.3	562	249.2
Hindol	62,670	2,028	32.4	1,615	25.7	539	265.7
Khandpara	91,417	3,716	40.6	3,545	38.8	1,049	282.2
Nilgiri	75,068	2,035	27.1	1,597	21.3	330	162.2
Mayurbhanj	1,034,900	25,476	24.6	17,866	17.3	2,752	108.0
Bamra	190,077	6,595	34.7	5,350	28.1	1,858	281.7
Gangpur	416,157	13,333	32.0	10,394	25.0	4,457	334.2
Keonjhar	559,761	15,441	27.6	12,490	22.3	2,400	155.4
Bastar	681,198	20,186	29.6	12,220	17.9	2,215	109.7
Kawardha	79,213	3,440	43.4	2,768	34.9	*	*
Nandgaon	211,892	6,648	31.4	7,202	33.9	*	*
Raigarh	327,836	8,570	26.1	9,497	29.0	1,780	207.7
<b>Central India Agency.</b>							
Bhopal	809,316	20,014	24.7	15,147	18.7	*	*
Dewas Senior Branch	94,808	752	7.9	924	9.7	142	188.8
Rajgarh	154,556	1,178	7.6	1,400	9.1	316	268.3
<b>BARODA &amp; GUJARAT STATES AGENCY.</b>							
Baroda	3,902,770	92,446	23.7	62,724	16.1	12,354	133.6
Cambay	100,417	3,186	31.7	2,959	29.5	707	221.9
Dharampur	128,228	4,575	35.7	2,537	19.8	114	24.9
<b>KOLHAPUR &amp; DECCAN STATES.</b>							
Kolhapur	1,150,508	43,304	37.6	26,602	23.1	4,823	111.4
Akalkot	108,802	3,075	28.3	2,091	19.2	239	77.7
Bhor	162,215	3,769	23.2	2,740	16.9	506	134.3
Jamkhandi	131,472	4,504	34.3	3,257	24.7	639	141.9
Kurundwad (Senior)	56,172	2,098	37.3	1,195	21.3	255	121.5
Kurundwad (Junior)	49,659	1,884	37.9	1,323	26.6	223	118.4
Miraj (Senior)	114,879	2,988	37.3	2,670	23.2	401	134.2
Miraj (Junior)	49,625	1,488	30.0	1,042	21.0	196	131.7
Mudhol	76,621	3,769	49.2	2,740	35.8	506	134.3
Ramdurg	42,133	1,037	24.6	791	19.2	164	158.1
Sawantwadi	261,348	6,330	24.2	3,901	14.9	680	107.4
Aundh	94,022	3,420	36.4	2,463	26.1	462	135.1
<b>PUNJAB STATES.</b>							
Nabha	362,781	11,286	31.1	5,777	15.9	1,433	127.0
Chamba	178,461	446	5.3	709	4.0	81	85.6

\*Not available.

†Relates to 1945-1946.





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## SECTION II

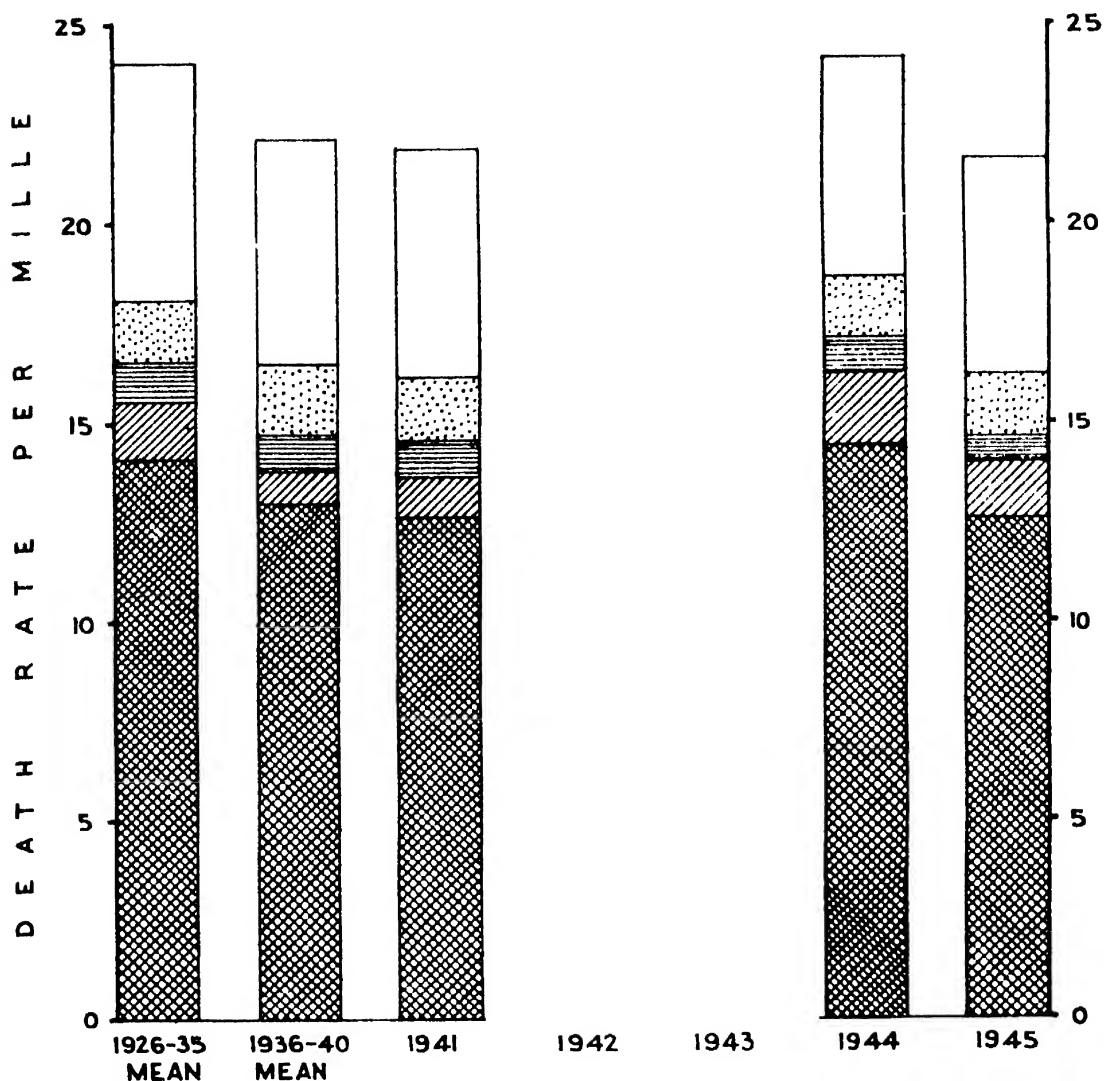
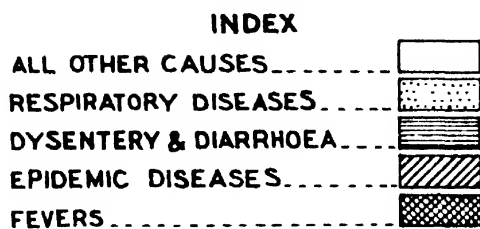
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TABLE 16.—DEATHS AND RATES PER MILLE FROM CERTAIN CAUSES OR

		Cholera.		Smallpox.		Plague.		Fevers.	
		Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mil
<b>NORTH-WEST FRONTIER PROVINCE</b>									
<b>1937-43—</b>									
Max.	.	1,291	0.4	1,065	0.4			50,801	16.4
Med.	.	83	0.03	619	0.2			41,622	16.4
Min.	.	..	..	172	0.06			34,564	11.4
1940	.	99	0.03	470	0.2			42,006	14.2
1941	.	1,291	0.4	619	0.2			50,801	16.4
1942	.	5	0.00	172	0.06			41,768	13.0
1943	.	83	0.03	198	0.06			40,493	13.0
1944	.	90	0.03	610	0.2			36,707	11.4
1945	.	99	0.03	324	0.1			30,165	9.0
<b>PUNJAB</b>									
<b>1937-43—</b>									
Max.	.	5,760	0.2	5,455	0.2	4	0.00	651,259	22.0
Med.	.	198	0.01	3,991	0.2	..	..	473,641	16.0
Min.	.	19	0.00	754	0.03	..	..	376,803	14.0
1940	.	198	0.01	4,074	0.1	..	..	473,641	16.0
1941	.	1,099	0.04	1,492	0.05	..	..	528,635	18.0
1942	.	32	0.00	754	0.03	..	..	651,259	22.0
1943	.	803	0.03	784	0.03	1	0.00	579,923	19.0
1944	.	2,317	0.08	2,068	0.07	61	0.00	591,303	19.0
1945	.	1,285	0.04	1,927	0.06	203	0.00	439,642	14.0
<b>DELHI</b>									
<b>1937-43—</b>									
Max.	.	182	0.3	643	1.0	..	..	9,279	13.0
Med.	.	5	0.01	152	0.2	..	..	4,858	0.0
Min.	.	..	..	25	0.03	..	..	3,906	4.0
1940	.	5	0.01	152	0.2	..	..	3,906	4.0
1941	.	60	0.06	66	0.07	..	..	4,007	4.0
1942	.	..	..	25	0.03	..	..	5,364	5.0
1943	.	4	0.00	624	0.6	..	..	4,910	5.0
1944	.	277	0.3	482	0.5	3	0.00	5,158	5.0
1945	.	103	0.10	68	0.07	..	..	3,842	3.0
<b>UNITED PROVINCES</b>									
<b>1937-43—</b>									
Max.	.	70,622	1.3	15,861	0.3	24,036	0.5	940,469	17.0
Med.	.	26,099	0.5	5,928	0.1	11,725	0.2	833,853	14.0
Min.	.	6,341	0.1	3,200	0.06	4,035	0.07	792,263	14.0
1940	.	26,099	0.5	15,861	0.3	11,725	0.2	813,622	14.0
1941	.	52,540	0.9	13,161	0.2	4,035	0.07	802,931	14.0
1942	.	7,662	0.1	4,479	0.08	8,953	0.2	833,853	14.0
1943	.	25,705	0.5	5,928	0.1	7,556	0.1	884,071	15.0
1944	.	40,291	0.7	10,066	0.2	15,454	0.3	846,861	14.0
1945	.	77,345	1.3	22,128	0.4	14,024	0.2	813,592	14.0
<b>BIHAR</b>									
<b>1937-43—</b>									
Max.	.	51,655	1.4	18,384	0.5	1,938	0.1	615,968	17.0
Med.	.	18,929	0.5	7,485	0.2	1,040	0.03	572,371	15.0
Min.	.	13,949	0.4	3,066	0.08	108	0.00	449,297	12.0
1940	.	18,929	0.5	18,384	0.5	1,040	0.03	572,371	15.0
1941	.	51,655	1.4	14,598	0.4	129	0.00	540,155	14.0
1942	.	26,010	0.7	4,813	0.1	108	0.00	449,297	12.0
1943	.	51,584	1.4	3,066	0.08	266	0.01	461,746	12.0
1944	.	149,930	4.0	10,992	0.3	834	0.02	588,940	15.0
1945	.	66,834	1.8	25,632	0.6	1,523	0.04	613,252	16.0

# DEATH RATES PER MILLE BY CAUSES IN BRITISH INDIA IN 1941-1945



(CHART-IV)



## GROUPS OF CAUSES OF MORTALITY

Dysentery & Diarrhoea.		Respiratory Diseases.		Other Causes.		Total.	
Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.
468	0.2	3,704	1.5	6,395	2.5	61,360	21.3
327	0.1	3,005	1.2	5,311	1.8	50,170	19.9
312	0.1	2,353	0.8	4,299	1.4	44,276	17.3
313	0.1	2,827	1.0	5,311	1.8	51,026	17.4
427	0.1	3,109	1.0	5,113	1.7	61,360	20.4
327	0.1	2,545	0.8	4,299	1.4	49,116	16.0
322	0.1	2,353	0.8	4,473	1.4	47,922	15.3
416	0.1	2,255	0.7	4,466	1.4	44,544	13.9
210	0.1	1,752	0.5	3,713	1.2	36,198	11.1
16,488	0.6	79,775	2.9	111,571	4.2	822,541	28.3
12,517	0.4	64,096	2.2	99,922	3.7	657,968	23.5
10,470	0.4	57,068	1.9	82,543	2.8	556,268	21.3
12,720	0.5	67,303	2.4	100,032	3.6	657,968	23.5
12,952	0.5	64,096	2.2	96,179	3.4	704,453	24.7
16,488	0.6	57,068	1.9	96,940	3.3	822,541	28.3
12,517	0.4	60,699	2.1	82,543	2.8	737,270	25.0
10,316	0.3	66,410	2.2	85,748	2.8	758,223	25.3
7,942	0.3	56,092	1.8	86,253	2.8	593,344	19.5
2,733	2.9	6,282	8.1	8,352	8.5	22,611	23.0
1,779	1.9	5,763	6.8	5,741	6.4	17,734	19.7
512	0.7	3,679	5.3	2,517	3.6	16,630	19.7
1,779	1.9	6,151	6.8	5,741	6.4	17,734	19.7
2,141	2.3	6,282	6.8	6,843	7.4	19,339	20.9
2,733	2.9	5,690	6.0	7,507	7.9	21,319	22.3
2,472	2.5	6,249	6.4	8,352	8.5	22,611	23.0
1,664	1.6	7,021	6.9	8,761	8.7	23,366	23.1
977	0.9	5,613	5.4	7,862	7.6	18,465	17.8
21,015	0.4	46,957	0.9	153,078	2.9	1,249,988	23.6
17,126	0.3	41,398	0.8	132,821	2.4	1,064,098	19.3
16,238	0.3	36,901	0.7	110,244	1.9	1,033,429	18.5
16,238	0.3	40,293	0.7	130,343	2.4	1,054,181	19.3
17,897	0.3	41,523	0.8	132,821	2.4	1,064,908	19.3
16,595	0.3	38,116	0.7	123,771	2.2	1,033,429	18.5
17,040	0.3	36,901	0.7	110,244	1.9	1,087,445	19.2
17,340	0.3	37,226	0.7	105,174	1.8	1,072,412	18.7
19,388	0.3	38,329	0.7	112,179	1.9	1,096,985	18.9
4,141	0.1	3,306	0.1	118,436	3.3	763,768	21.8
3,328	0.09	2,791	0.08	100,541	2.8	719,906	20.0
2,892	0.08	1,957	0.05	72,659	1.9	568,905	15.4
2,817	0.08	2,791	0.08	103,574	2.9	719,906	20.0
3,328	0.09	2,442	0.07	100,541	2.8	712,848	19.5
2,984	0.08	1,957	0.05	83,736	2.3	568,905	15.4
2,892	0.08	1,971	0.05	72,659	1.9	594,184	16.0
3,841	0.1	2,618	0.07	79,535	2.1	836,690	22.5
3,746	0.1	2,967	0.08	83,259	2.2	797,213	21.2

TABLE 16.—DEATHS AND RATES PER MILLE FROM CERTAIN CAUSES OR

		Cholera.		Smallpox.		Plague.		Fevers.	
		Deaths.	Rate per mille	Deaths.	Rate per mill				
ORISSA									
1937-43—									
Max.	.	20,502	2.7	6,156	0.8			117,700	15.5
Med.	.	5,076	0.7	4,165	0.6			102,998	13.6
Min.	.	1,309	0.2	2,269	0.3			90,213	12.1
1940	.	3,893	0.5	5,754	0.8			90,213	12.1
1941	.	9,325	1.2	6,156	0.8			107,848	14.3
1942	.	8,908	1.2	4,165	0.6			102,998	13.6
1943	.	20,502	2.7	4,244	0.6			117,700	15.5
1944	.	18,246	2.4	8,124	1.1			129,273	17.0
1945	.	10,587	1.4	12,018	1.6			121,585	15.9
BENGAL									
1937-43—									
Max.	.	216,428	3.5	27,994	0.5	2	0.00	1,142,684	18.6
Med.	.	61,879	1.0	9,289	0.2	..	..	775,586	14.9
Min.	.	21,743	0.4	4,781	0.08	..	..	687,587	12.1
1940	.	21,743	0.4	5,608	0.09	1	0.00	717,516	12.1
1941	.	61,879	1.0	13,250	0.2	2	0.00	732,884	12.1
1942	.	78,391	1.3	4,781	0.08	..	..	782,312	12.7
1943	.	216,428	3.5	22,019	0.4	..	..	1,142,684	18.6
1944	.	49,469	0.8	140,480	2.3	3	0.00	1,137,040	18.5
1945	.	32,537	0.5	36,853	0.6	..	..	808,969	12.9
CENTRAL PROVINCES									
1937-43—									
Max.	.	45,332	2.7	4,607	0.3	1,002	0.1	322,404	19.2
Med.	.	4,974	0.3	1,210	0.07	535	0.03	300,322	17.9
Min.	.	1,107	0.07	460	0.02	129	0.01	282,359	17.0
1940	.	4,974	0.3	4,607	0.3	283	0.02	291,933	17.5
1941	.	14,161	0.2	2,746	0.2	761	0.05	302,442	17.9
1942	.	21,177	1.2	1,210	0.07	129	0.01	320,986	18.9
1943	.	1,466	0.09	1,396	0.08	144	0.01	286,885	16.7
1944	.	9,374	0.5	3,877	0.2	910	0.05	307,014	17.8
1945	.	53,377	3.1	8,441	0.5	575	0.03	370,382	21.2
BOMBAY									
1937-43—									
Max.	.	16,706	0.8	10,525	0.5	5,573	0.3	188,356	8.9
Med.	.	10,780	0.5	3,898	0.2	715	0.03	180,489	8.4
Min.	.	716	0.03	1,810	0.09	406	0.02	164,130	8.4
1940	.	716	0.03	10,525	0.5	5,573	0.3	172,858	8.4
1941	.	16,706	0.8	3,784	0.2	5,311	0.3	180,929	8.7
1942	.	11,095	0.5	2,744	0.1	680	0.03	188,356	8.9
1943	.	10,780	0.5	3,898	0.2	715	0.03	180,489	8.4
1944	.	1,639	0.08	7,212	0.3	2,514	0.1	215,027	9.9
1945	.	24,691	1.1	4,699	0.2	11,779	0.5	200,538	9.1
SIND									
1937-43—									
Max.	.	3,152	0.7	1,008	0.2	16	0.00	35,693	7.9
Med.	.	18	0.00	565	0.1	..	..	29,260	6.5
Min.	.	2	0.00	151	0.03	..	..	23,973	5.5
1940	.	227	0.05	1,008	0.2	..	..	29,260	6.5
1941	.	31,52	0.7	223	0.05	..	..	35,693	7.9
1942	.	2	0.00	151	0.03	..	..	29,593	6.4
1943	.	18	0.00	392	0.08	..	..	32,036	6.9
1944	.	244	0.05	695	0.2	..	..	32,150	6.8
1945	.	167	0.03	121	0.02	..	..	28,007	5.8

GROUPS OF CAUSES OF MORTALITY—*contd.*

Dysentery & Diarrhoea.		Respiratory Diseases.		Other Causes.		Total.	
Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.	Deaths.	Rate per mille.
20,147	2.7	5,116	0.7	67,152	8.8	233,584	30.7
17,403	2.4	4,821	0.6	63,810	8.9	199,312	27.3
12,998	1.7	4,590	0.6	57,405	7.7	174,853	23.4
12,998	1.7	4,590	0.6	57,405	7.7	174,853	23.4
20,147	2.7	5,116	0.7	64,683	8.6	213,274	28.4
15,635	2.1	4,596	0.6	58,424	7.7	194,726	25.7
19,165	2.5	4,821	0.6	67,152	8.8	233,584	30.7
18,803	2.5	4,613	0.6	56,522	7.4	235,581	31.0
17,093	2.2	4,407	0.6	51,922	6.8	217,612	28.4
95,130	1.5	99,763	.9	354,478	5.8	1,908,622	31.1
54,453	1.0	85,203	.4	240,659	3.9	1,222,164	19.9
45,422	0.8	72,810	.2	219,780	3.9	1,090,530	18.7
45,422	0.8	85,203	.4	235,589	3.9	1,111,083	18.7
51,529	0.9	84,647	.4	240,659	3.9	1,184,850	19.6
53,255	0.9	72,810	.2	230,615	3.8	1,222,164	20.0
55,130	1.5	77,883	.3	354,478	5.8	1,908,622	31.1
65,337	1.1	83,254	.4	251,287	4.1	1,726,870	28.1
45,693	0.7	78,694	1.3	235,387	3.8	1,238,133	19.8
42,793	2.6	54,137	3.2	163,691	9.8	629,301	37.6
30,435	1.8	43,934	2.6	137,137	8.2	515,300	30.7
19,061	1.1	35,902	2.1	128,052	7.5	472,906	27.6
25,773	1.5	43,934	2.6	134,720	8.1	506,224	30.3
28,492	1.7	41,817	2.5	149,493	8.9	539,912	32.0
30,441	1.8	41,635	2.4	151,684	8.9	567,262	33.3
19,061	1.1	35,902	2.1	128,052	7.5	472,906	27.6
22,774	1.3	36,715	2.1	138,854	8.0	519,518	30.0
33,964	1.9	46,956	2.6	169,752	9.7	683,447	39.1
4,242	1.7	125,618	6.4	201,118	9.9	547,387	27.9
6,351	1.3	105,538	5.0	185,163	8.7	502,531	23.4
1,522	1.0	100,706	4.7	176,189	9.0	493,208	24.3
2,165	1.1	102,996	5.0	186,632	9.0	501,465	24.3
6,351	1.3	105,538	5.0	201,118	9.6	539,737	25.8
6,376	1.2	102,134	4.8	185,163	8.7	516,548	24.4
1,522	1.0	100,706	4.7	184,421	8.6	502,531	23.4
2,493	1.0	108,398	5.0	199,178	9.2	556,461	25.6
1,214	0.9	105,994	4.8	215,977	9.8	584,892	26.5
1,316	0.3	9,831	2.1	12,414	2.8	59,804	13.2
1,158	0.3	9,098	2.1	10,644	2.3	52,159	11.3
1,124	0.2	8,444	2.0	8,359	2.0	44,779	10.4
1,131	0.3	9,320	2.1	12,414	2.8	53,360	11.9
1,249	0.3	9,044	2.0	10,533	2.3	59,804	12.2
1,124	0.2	9,831	2.1	11,458	2.5	52,159	11.3
1,158	0.3	9,788	2.1	9,632	2.1	53,024	11.4
1,437	0.3	9,523	2.0	10,450	2.2	54,499	11.5
883	0.2	8,412	1.8	8,802	1.8	46,392	9.7



TABLE 16.—DEATHS AND RATES PER MILE FROM CERTAIN CAUSES

		Cholera		Smallpox		Plague		Fever	
		Deaths	Rate per mille	Deaths	Rate per mille	Deaths	Rate per mille	Deaths	Rate per mille
<b>MADRAS</b>									
<b>1937—43—</b>									
Max.	.	117,039	2.3	7,925	0.2	4,885	0.1	307,942	6
Med.	.	10,252	0.2	3,120	0.1	1,155	0.02	301,127	6
Min.	.	2,115	0.00	2,273	0.05	324	0.00	282,708	5
1940	.	6,418	0.1	4,310	0.09	1,169	0.02	301,127	6
1941	.	8,510	0.2	2,755	0.06	1,726	0.04	301,517	6
1942	.	52,380	1.1	3,413	0.07	701	0.01	287,944	5
1943	.	117,039	2.3	7,925	0.2	4,885	0.1	301,775	6
1944	.	18,318	0.4	19,776	0.4	1,738	0.03	344,315	6
1945	.	8,494	0.2	20,636	0.4	1,644	0.03	301,178	5
<b>COORG</b>									
<b>1937—1943—</b>									
Max.	.	19	0.1	113	0.7	20	0.1	3,471	21
Med.	.	1	0.01	22	0.1	8	0.05	2,725	16
Min.	.	..	..	1	0.00	..	..	2,434	14
1940	.	19	0.1	22	0.1	8	0.05	2,656	15
1941	.	1	0.01	53	0.3	20	0.1	2,725	16
1942	.	5	0.03	113	0.7	6	0.04	2,713	16
1943	.	1	0.01	75	0.4	11	0.07	2,434	14
1944	.	..	..	84	0.5	8	0.05	2,825	15
1945	.	..	..	159	0.9	3	0.02	2,271	13
<b>ASSAM</b>									
<b>1937—43—</b>									
Max.	.	15,454	1.6	2,197	0.3	..	..	109,375	13
Med.	.	7,729	0.8	1,649	0.2	..	..	98,204	10
Min.	.	2,809	0.3	294	0.03	..	..	87,520	9
1940	.	2,809	0.3	1,400	0.2	..	..	93,677	10
1941	.	7,729	0.8	345	0.04	..	..	98,204	10
1942	.	12,806	1.3	294	0.03	..	..	87,520	9
1943	.	15,454	1.6	1,692	0.2	..	..	93,939	9
1944	.	4,107	0.4	11,728	1.2	..	..	104,383	10
1945	.	3,030	0.3	3,838	0.4	..	..	87,992	8
<b>AJMER-MERWARA</b>									
<b>1937—43—</b>									
Max.	.	63	0.1	701	1.4	2	0.00	17,286	29
Med.	.	4	0.01	219	0.4	..	..	9,666	16
Min.	.	..	..	23	0.04	..	..	8,570	14
1940	.	4	0.01	701	1.4	..	..	17,286	29
1941	.	33	0.06	59	0.1	..	..	8,770	15
1942	.	23	0.04	23	0.04	..	..	10,282	17
1943	.	63	0.1	133	0.2	..	..	9,666	16
1944	.	223	0.4	344	0.6	..	..	11,347	18
1945	.	26	0.04	230	0.4	..	..	11,064	17
<b>BRITISH INDIA</b>									
<b>1937—43—</b>									
Max.	.	459,930	1.5	72,876	0.3	28,169	0.1	4,138,751	15
Med.	.	218,496	0.7	52,374	0.2	17,371	0.06	3,697,541	15
Min.	.	86,133	0.3	27,137	0.09	10,577	0.04	3,613,376	15
1940	.	86,133	0.3	72,876	0.3	19,799	0.07	3,622,072	15
1941	.	228,141	0.8	59,307	0.2	11,984	0.04	3,697,541	15
1942	.	218,496	0.7	27,137	0.09	10,577	0.04	3,794,245	15
1943	.	459,930	1.5	52,374	0.2	13,578	0.05	4,138,751	15
1944	.	294,525	1.0	216,538	0.7	21,525	0.07	4,352,143	14
1945	.	278,498	0.9	137,086	0.4	29,751	0.09	3,832,479	15

DUPS OF CAUSES OF MORTALITY —*contd.*

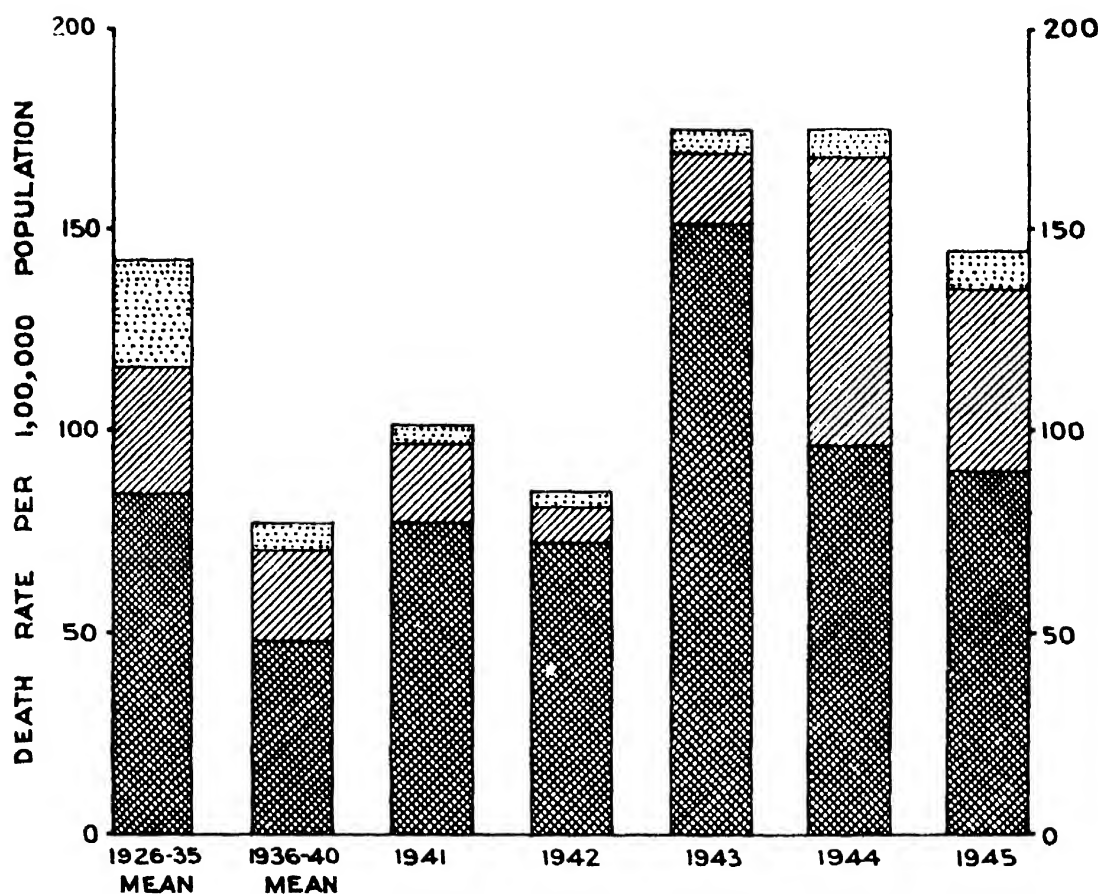
Dysentery and Diarrhoea.		Respiratory Diseases		Other Causes		Total	
Deaths	Rate per mille	Deaths	Rate per mille	Deaths	Rate per mille	Deaths	Rate per mille
98,464	2.0	106,271	2.1	639,346	12.7	1,270,687	25.2
86,444	1.8	99,678	2.0	598,796	12.3	1,111,281	22.9
74,064	1.5	95,906	2.0	560,674	11.9	1,032,052	21.6
86,444	1.8	99,678	2.0	598,796	12.3	1,097,940	22.5
98,464	2.0	103,766	2.1	619,099	12.6	1,135,837	23.0
88,570	1.8	96,157	1.9	590,964	11.9	1,120,129	22.6
93,446	1.9	106,271	2.1	639,346	12.7	1,270,687	25.2
97,004	1.9	111,842	2.2	698,425	13.7	1,291,418	25.4
78,160	1.5	101,200	1.9	632,089	12.3	1,143,401	22.8
151	0.9	251	1.5	769	4.6	4,485	27.2
124	0.7	170	1.0	630	3.8	3,847	22.8
90	0.5	108	0.6	464	2.8	3,429	20.3
151	0.9	133	0.8	464	2.8	3,453	20.5
124	0.7	182	1.1	749	4.4	3,854	22.8
110	0.7	131	0.8	769	4.6	3,847	22.8
90	0.5	108	0.6	710	4.2	3,429	20.3
121	0.7	97	0.6	524	3.1	3,459	20.5
88	0.5	70	0.4	557	3.3	3,148	18.6
12,882	1.5	6,874	0.8	39,725	4.7	177,767	20.9
10,577	1.1	5,075	0.5	37,388	4.4	159,591	16.3
8,964	0.96	4,256	0.4	33,113	3.4	148,240	15.4
8,964	0.96	5,075	0.5	36,939	4.0	148,864	16.0
9,489	1.0	4,782	0.5	38,067	4.0	158,616	16.3
9,538	1.0	4,256	0.4	33,826	3.5	148,240	15.4
10,577	1.1	4,816	0.5	33,113	3.4	159,591	16.3
11,100	1.1	4,520	0.5	31,370	3.2	167,208	17.1
8,886	0.9	3,561	0.4	27,229	2.8	134,536	13.6
1,064	1.8	3,414	5.9	2,100	3.5	24,400	42.2
746	1.3	2,823	4.8	1,887	3.1	14,980	24.9
561	0.9	2,670	4.4	1,650	2.8	14,100	24.1
1,064	1.8	3,414	5.9	1,931	3.3	24,400	42.2
791	1.3	2,797	4.8	1,650	2.8	14,100	24.1
746	1.3	3,026	6.8	1,828	3.1	15,928	26.8
561	0.9	2,670	4.4	1,887	3.1	14,980	24.9
540	0.9	2,542	5.8	1,886	3.1	16,882	27.7
356	0.6	1,622	2.6	1,662	2.7	14,960	24.3
295,953	1.0	536,649	1.9	1,697,069	5.6	7,108,786	23.6
267,479	0.9	475,141	1.6	1,620,293	5.8	6,336,313	21.8
237,979	0.9	439,952	1.5	1,580,984	5.3	6,112,375	21.1
237,979	0.9	473,706	1.6	1,609,891	5.6	6,122,456	21.1
273,381	0.9	475,141	1.6	1,667,547	5.7	6,413,042	21.8
264,922	0.9	439,952	1.5	1,580,984	5.3	6,336,313	21.3
295,953	1.0	451,138	1.5	1,697,062	5.6	7,108,786	23.6
273,186	0.9	477,034	1.6	1,672,180	5.5	7,307,131	24.1
288,600	0.8	455,669	1.5	1,636,643	5.3	6,608,726	21.5

TABLE 17.—DEATHS AND RATES PER MILLE FROM CERTAIN CAUSES OR GROUPS OF CAUSES OF MORTALITY IN RURAL AND URBAN AREAS DURING THE YEAR 1945

	Cholera						Smallpox.						Plague.					
	Rural			Urban			Rural			Urban			Rural			Urban		
	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.
North-West Frontier Province . . . . .	22	0.01	..	..	..	..	280	0.1	56	0.08	..	..	..	..	..	..	..	..
Punjab . . . . .	693	0.03	592	0.02	1,472	0.06	1,472	0.06	455	0.1	162	0.01	41	0.01	..	..	..	..
Delhi . . . . .	21	0.08	82	0.1	3	0.01	65	0.08	..	..	..	..	..	..	..	..	..	..
United Provinces . . . . .	72,856	1.4	4,489	0.6	19,200	0.4	2,928	0.4	13,112	0.3	912	0.01	..	..	..	..	..	..
Bihar . . . . .	65,980	1.8	854	0.5	24,623	0.7	1,009	0.6	1,512	0.04	11	0.01	..	..	..	..	..	..
Orissa . . . . .	10,386	1.4	201	0.6	11,635	1.6	383	1.1	..	..	..	..	..	..	..	..	..	..
Bengal . . . . .	28,680	0.5	3,857	0.6	29,155	0.5	7,698	1.3	..	..	..	..	..	..	..	..	..	..
Central Provinces . . . . .	49,269	3.2	4,108	1.8	7,072	0.5	1,369	0.6	526	0.03	49	0.02	..	..	..	..	..	..
Bombay . . . . .	22,215	1.4	2,476	0.4	3,344	0.2	1,455	0.2	9,525	0.6	2,254	0.4	..	..	..	..	..	..
Sind . . . . .	123	0.03	44	0.05	84	0.02	37	0.04	..	..	..	..	..	..	..	..	..	..
Madras . . . . .	7,318	0.2	1,176	0.1	17,018	0.4	3,588	0.4	1,113	0.03	531	0.06	..	..	..	..	..	..
Coorg . . . . .	..	..	..	..	153	1.0	6	0.5	1	0.01	2	0.1	..	..	..	..	..	..
Assam . . . . .	2,960	0.3	70	0.2	3,764	0.4	74	0.3	..	..	..	..	..	..	..	..	..	..
Ajmer-Merwara . . . . .	2	0.01	24	0.1	216	0.6	14	0.06	..	..	..	..	..	..	..	..	..	..
British India . . . . .	260,525	1.0	17,973	0.5	117,949	0.4	19,137	0.5	..	..	..	..	..	..	..	..	..	..

# CHOLERA SMALLPOX AND PLAGUE DEATH RATES PER 1,00,000 POPULATION IN BRITISH INDIA IN 1941-1945

INDEX  
PLAGUE .....  
SMALLPOX .....  
CHOLERA .....



(CHART - V)



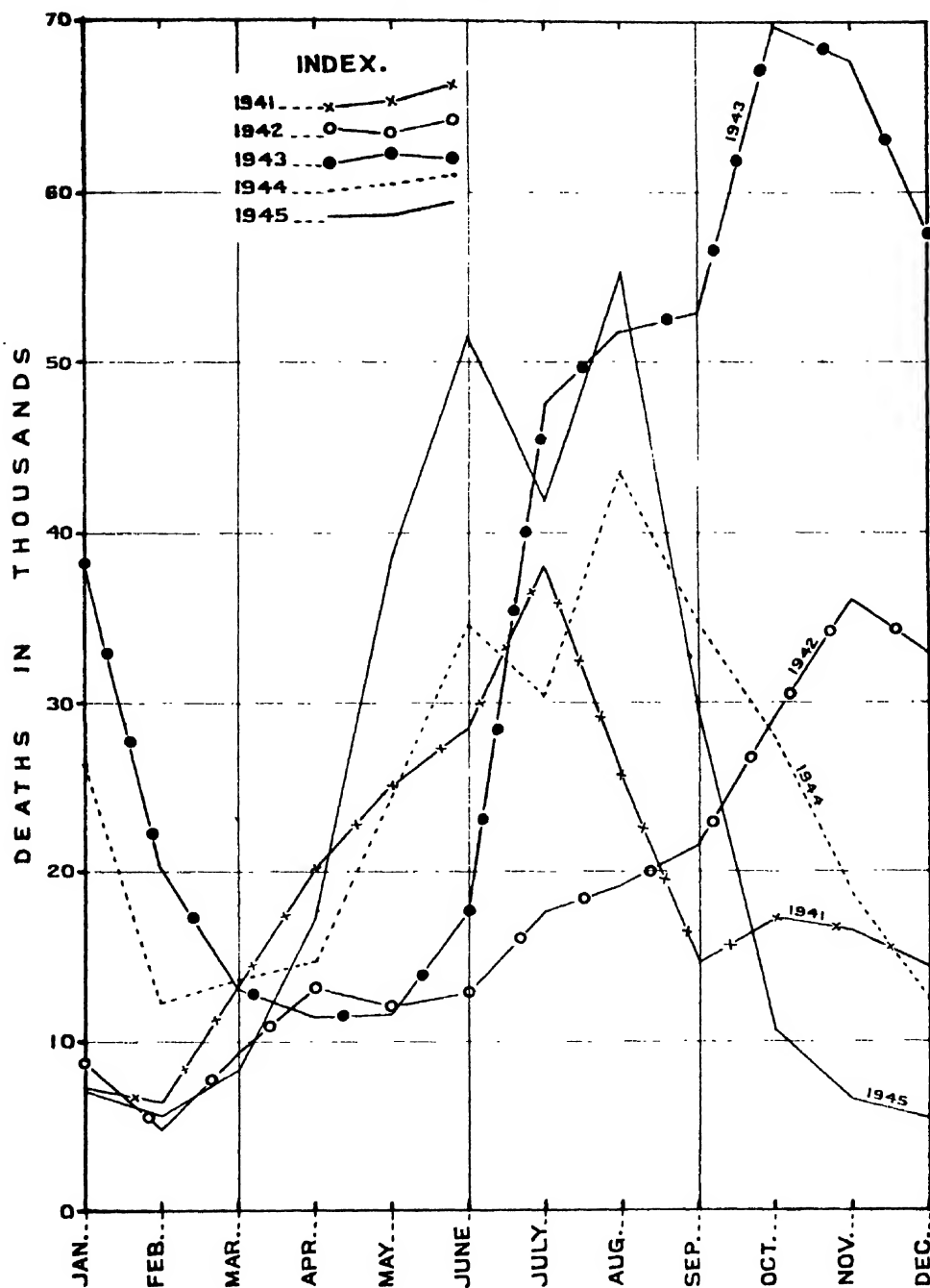
	Fevers				Dysentery and Diarrhoea				Respiratory diseases.			
	Rural		Urban		Rural		Urban		Rural		Urban	
	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.
North-West Frontier Province . . . . .	27,681	10.4	2,484	4.0	107	0.04	103	0.2	1,068	0.4	684	1.1
Punjab . . . . .	405,312	15.6	34,330	7.5	4,439	0.1	3,503	0.8	42,339	1.6	13,753	3.0
Delhi . . . . .	2,423	9.3	1,419	1.8	181	0.2	796	1.0	1,498	5.7	4,115	4.3
United Provinces . . . . .	744,978	14.8	68,614	9.2	5,425	1.0	13,963	1.9	5,877	0.1	32,452	4.4
Bihar . . . . .	604,335	16.8	8,917	5.1	2,866	0.1	880	0.5	2,193	0.1	774	0.4
Orissa . . . . .	119,688	16.4	1,897	5.3	16,276	2.2	818	2.3	3,966	0.5	421	1.2
Bengal . . . . .	789,622	14.0	19,347	3.2	37,146	0.7	8,547	1.4	62,841	1.1	15,853	2.6
Central Provinces . . . . .	340,855	22.4	29,527	12.9	28,036	1.8	5,928	2.6	38,797	2.6	8,159	3.6
Bombay . . . . .	167,813	10.4	32,726	5.5	14,402	0.9	6,812	1.2	66,740	4.1	39,254	6.6
Sind . . . . .	23,672	6.2	4,335	4.4	166	0.04	717	0.7	2,982	0.8	5,430	5.6
Madras . . . . .	271,217	6.3	29,961	3.5	59,319	1.4	18,841	2.1	69,663	1.6	31,517	3.7
Coorg . . . . .	2,189	13.9	82	7.2	59	0.4	29	2.5	16	0.09	55	4.8
Assam . . . . .	86,903	9.0	1,089	3.8	8,545	0.9	341	1.2	3,317	0.3	234	0.8
Ajmer-Merwara . . . . .	9,264	23.4	1,800	7.9	8	0.02	348	1.5	7	0.02	1,616	7.1
British India . . . . .	3,595,962	13.5	236,527	5.9	177,974	0.8	61,626	1.5	301,343	1.1	164,316	3.9

TABLE 18.—DEATHS FROM CHOLERA BY MONTHS AND NUMBER OF INOCULATIONS PERFORMED AND VILLAGES INFECTED DURING THE YEAR 1945

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	No. of anti-cholera inoculations.	Total Villages infected.	Number infected.
<b>North-West Frontier Province</b>	..	..	..	..	..	..	..	22	..	..	..	..	66,759	2,893	5
<b>Punjab</b>	..	..	..	..	15	31	175	644	375	45	..	..	747,146	35,376	237
<b>Delhi</b>	..	..	1	4	2	27	33	16	20	..	..	..	186,751	304	10
<b>United Provinces</b>	375	214	258	1,781	17,809	21,271	11,086	12,399	6,871	2,820	1,019	1,432	3,373,614	102,388	10,677
<b>Bihar</b>	1,648	651	1,376	1,754	8,762	17,700	14,086	7,471	3,945	3,016	3,354	2,070	5,918,279	68,869	7,903
<b>Orissa</b>	725	639	472	481	978	1,433	1,836	1,392	571	654	710	696	897,672	21,422	2,803
<b>Bengal</b>	3,425	2,578	4,328	9,944	5,971	1,826	1,404	548	342	515	749	907	7,586,218	83,950	*
<b>Central Provinces</b>	36	35	273	428	1,004	3,481	6,017	24,052	14,909	2,857	204	81	2,570,981	38,985	7,456
<b>Bombay</b>	159	234	405	1,783	3,271	3,940	5,750	7,064	1,355	318	364	48	1,944,580	21,455	3,274
<b>Sind</b>	..	..	..	..	..	2	43	61	44	15	2	..	111,890	12,104	36
<b>Madras</b>	402	873	1,088	560	230	497	1,332	1,557	1,018	473	204	260	1,999,377	34,891	2,469
<b>Coorg</b>	..	..	..	..	..	..	..	..	..	..	..	..	..	304	..
<b>Assam</b>	365	516	284	462	592	382	151	86	66	58	29	39	291,857	28,602	1,712
<b>Ajmer-Merwara</b>	..	..	..	..	..	14	2	5	5	..	..	..	59,458	621	1
<b>British India</b>	7,135	5,740	8,485	17,197	38,634	51,604	41,925	55,317	29,521	10,771	6,635	5,533	25,664,612	452,164	36,583

\*Not available

# MONTHLY CHOLERA MORTALITY IN BRITISH INDIA IN 1941-1945

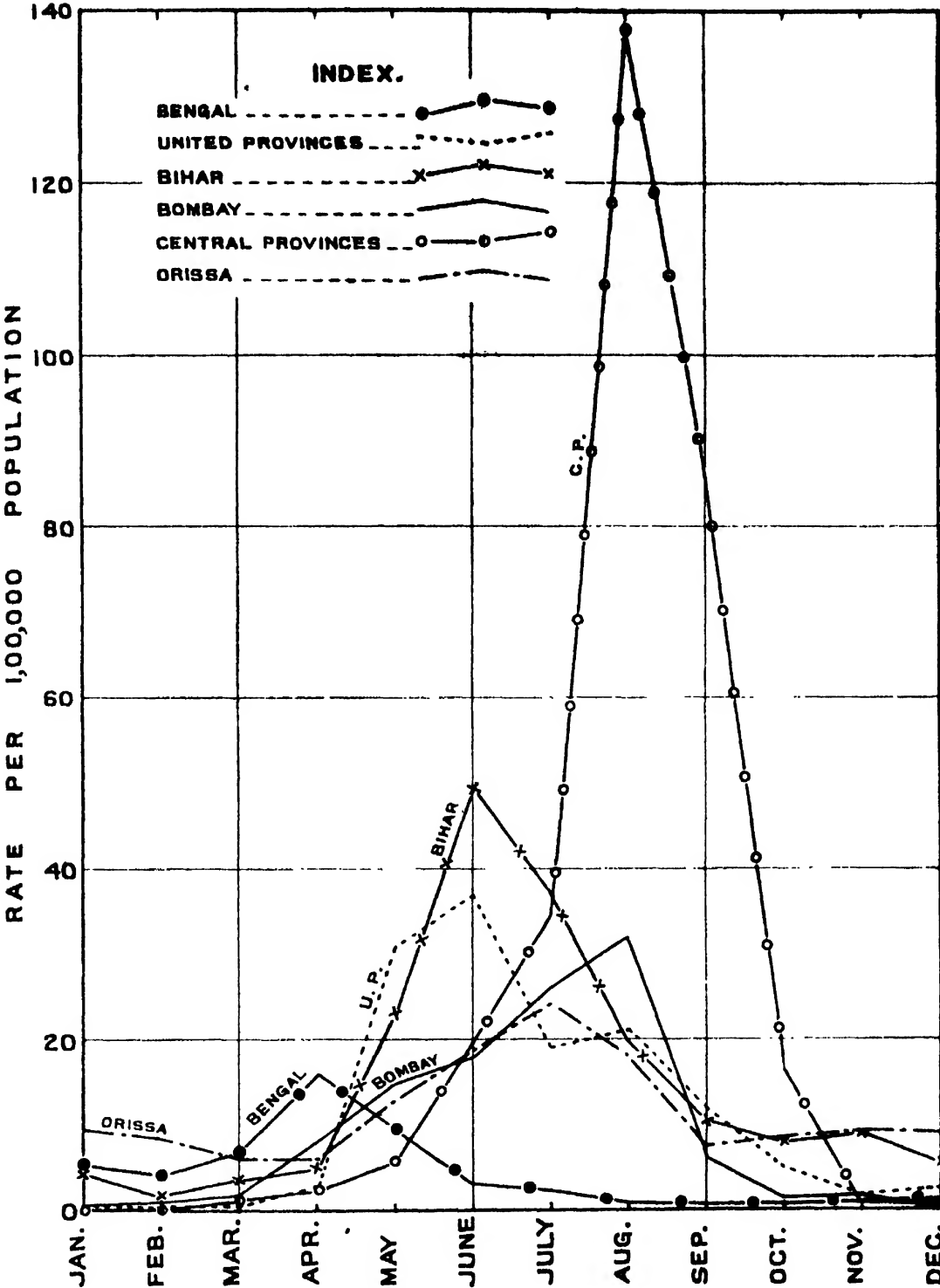


(CHART-VI)



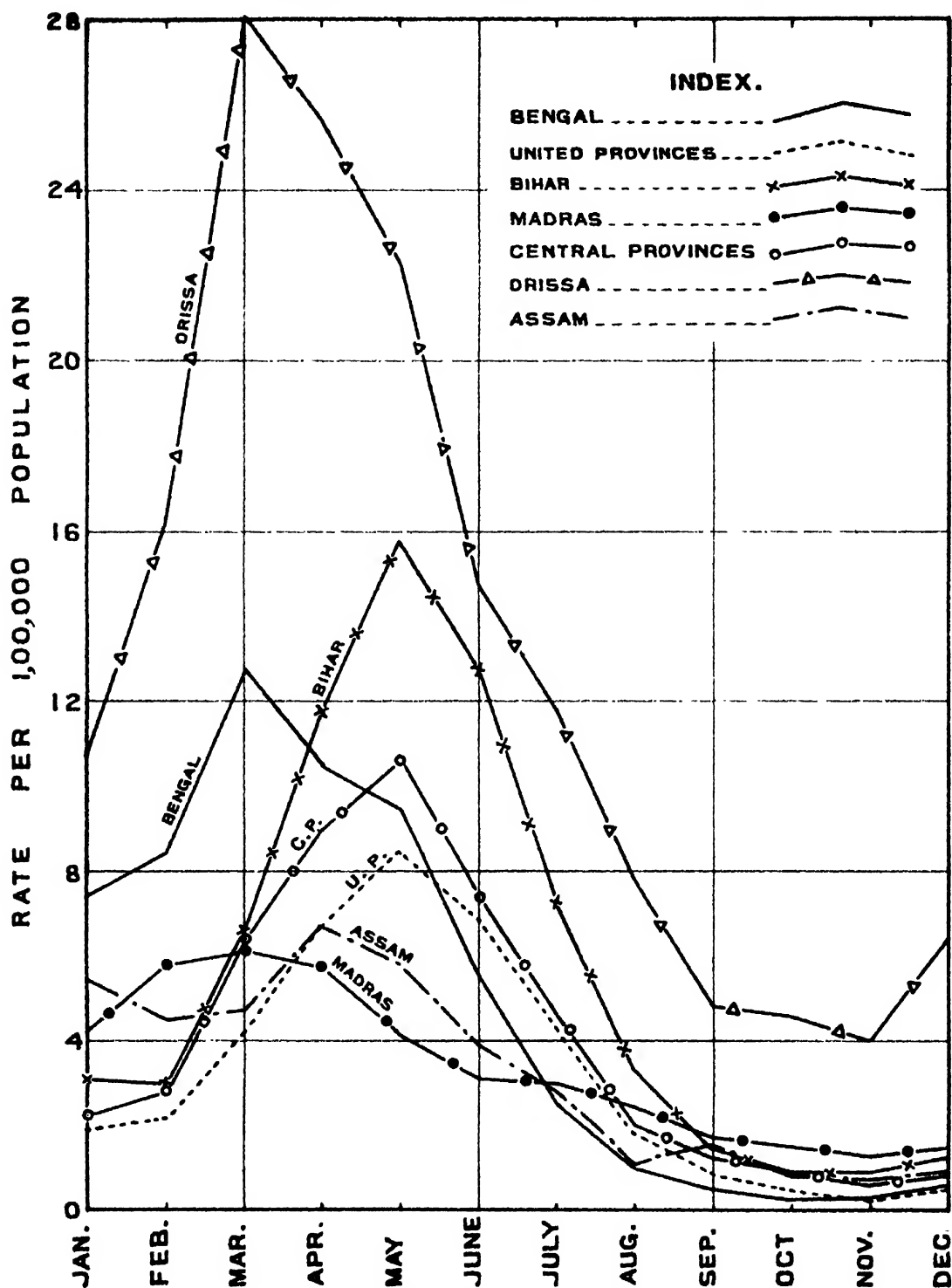


# MONTHLY DEATH RATES PER 1,00,000 POPULATION FROM CHOLERA IN BRITISH INDIAN PROVINCES HEAVILY AFFECTED IN 1945



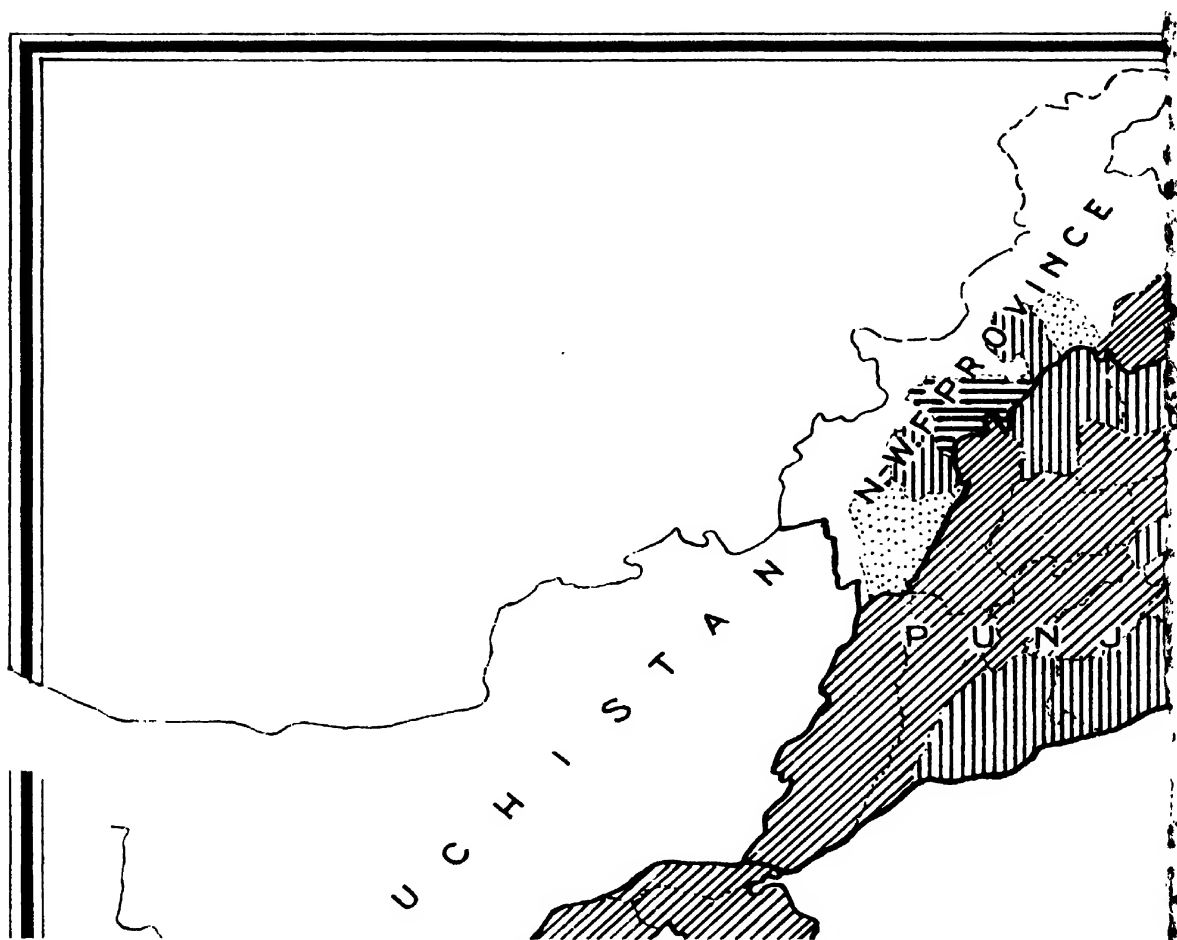
(CHART - XII)

# MONTHLY DEATH RATES PER 1,00,000 POPULATION FROM SMALLPOX IN BRITISH INDIAN PROVINCES HEAVILY AFFECTED IN 1945



(CHART - XIII)





# Annual Report of the Public Health Commissioner with the Government of India for 1945.

## SECTION I

### INTRODUCTION

1. From the year 1941 onwards, it became necessary to suspend publication of the full annual report of the Public Health Commissioner for various reasons chief amongst them being the acute shortage of paper and printing facilities, diversion of some of the civilian staff to war work, recall to military duty of officers in civilian departments both from the Centre and the Provinces, difficulty in obtaining in time full reports of the provincial health activities, and lastly for reasons of security. Since the termination of the war last year, these difficulties are being gradually overcome. Brief reports for the years 1941, 1942, 1943 and 1944 have already been published. A preliminary note on the health conditions in British India during 1945 was published earlier this year as a new departure to provide a brief and early review.

Through the helpful co-operation of the Directors of Public Health of the Provinces it has been possible to obtain fuller reports of the work done during 1945. This report for 1945 is modelled more or less on the lines of the reports of the immediate pre-war years. It has not been possible, however, to publish it within six months of the end of the year to which it relates, which has been our objective in the past.

The year under review saw the termination of the global war first in the European and then in the Pacific Theatre. It left the world with widely devastated areas crying for rehabilitation, and a shortage of food and fuel supplies combined with difficulties of transport and communication. Under such circumstances the return to peace-time conditions could not be but slow. Malnutrition of populations on a scale not previously encountered could be expected. The threat of widespread world epidemics was apprehended. The pandemic of influenza in 1918-19 after World War I came readily to mind. In the United Kingdom the dreaded influenza did cause some alarm during the winter of 1945 but fortunately the worst fears did not materialize. In India, special watch was maintained at ports to check immediately any importation of influenza into the country. Spotting stations were organised in the provinces and a production of influenza virus vaccine was started on a preliminary scale at the King Institute, Madras.

In India epidemics of cholera, smallpox and plague raged in a severer form than had been seen for many years past. Lack of sufficient medical personnel with the civil administration of the provinces and in some instances difficulties of supply of drugs and disinfectants hampered quicker control. In Bengal some military medical units and personnel loaned from the army continued to render invaluable help to the civilian health authorities.

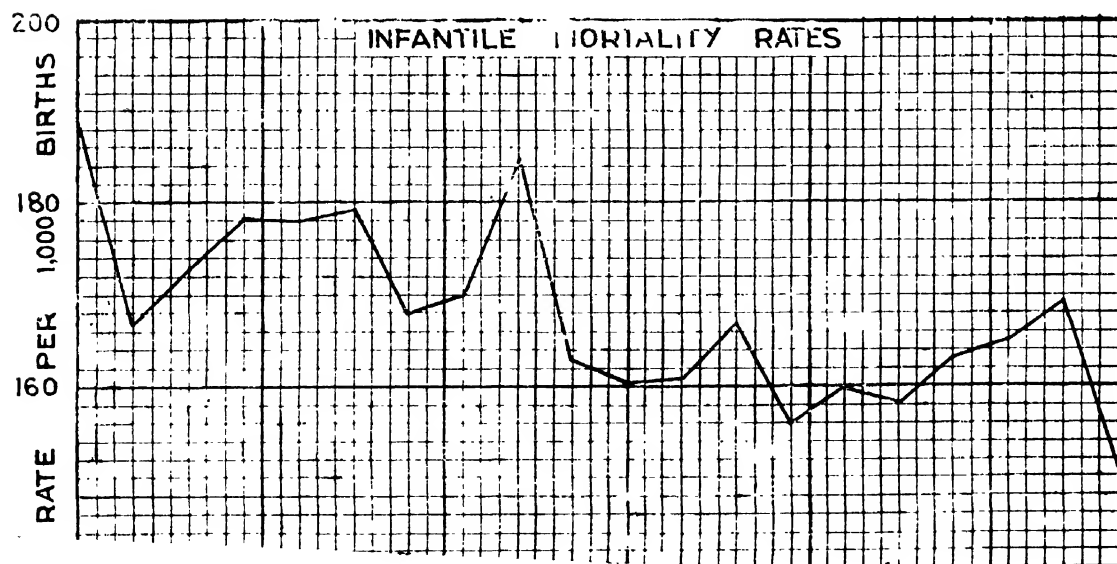
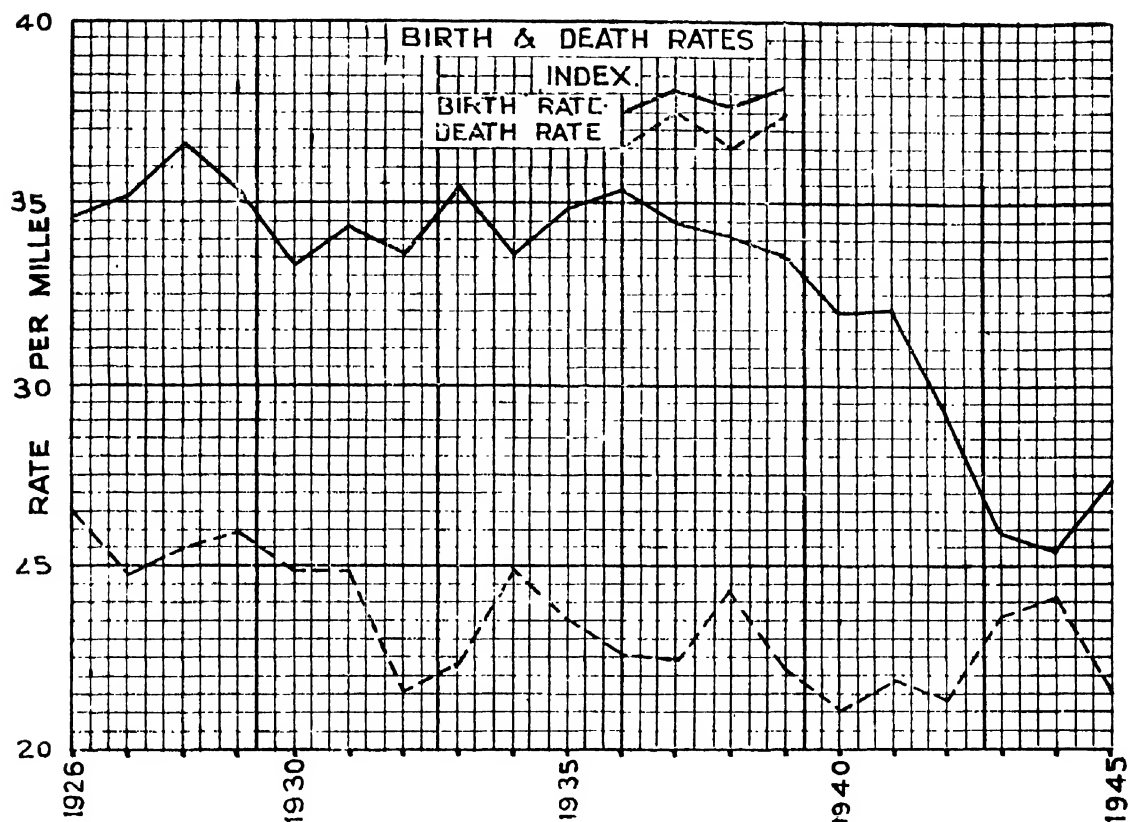
The control of epidemic diseases at fairs and large religious gatherings has improved by the insistence of some provincial authorities on pilgrims being previously protected by inoculation. This measure has materially reduced the danger of spread of epidemic by the returning pilgrims.

War conditions had produced unprecedented expansion of aerial traffic to India especially through North Africa and the danger of the introduction of yellow fever into India grew, since the arrangements that had been made at the outset of the war for the disinsection of infected planes before coming to India were becoming inadequate. The Government of India deputed two officers to study conditions and disinsection methods in North Africa. They reported that the disinsection arrangements for aircraft did not comply with all the conditions laid down by the Government of India. This resulted in the Government of India withdrawing recognition granted to disinsection certificates issued by any outside authority. The only disinsection certificates so far recognised had been those issued by the Egyptian and Sudan Civilian Authorities. These were, in consequence, no longer recognised with the result that any planes that had been to yellow fever infected areas were considered infected and all persons travelling in them and not holding valid yellow fever inoculation certificates had perforce to be quarantined at Karachi.

A review of the health conditions in British India during the year 1945 based on the monthly vital statistical returns received from the provinces has been made in the Preliminary Note which has been referred to in a previous paragraph. It is unnecessary to cover the same ground again. Recently, annual revised data for the whole year have been received from the provinces, though the data from some of them are still liable to slight alteration on final revision. These data generally support the remarks made on the health situation in the Preliminary Note.

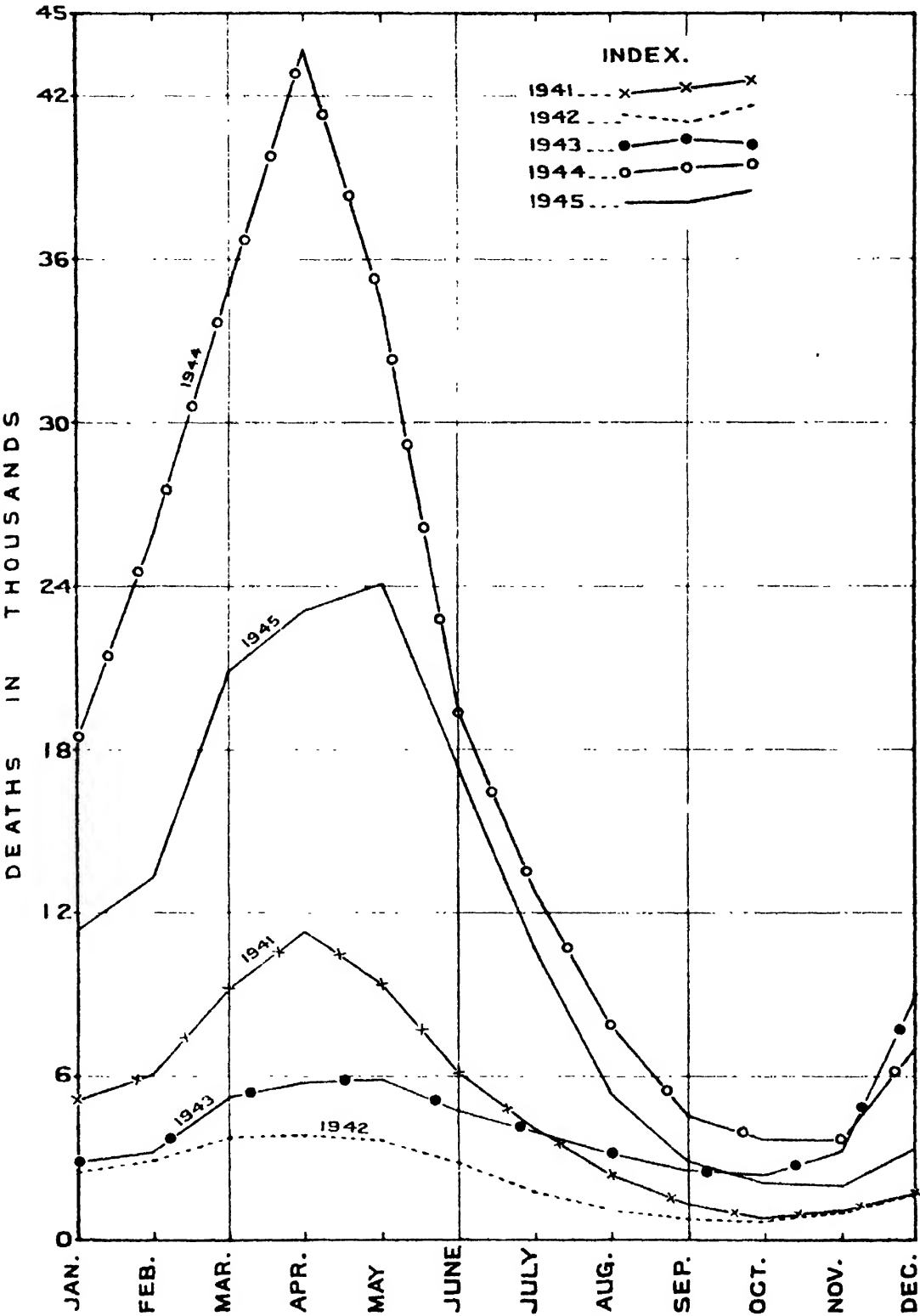
The annual data referred to above show a total of 8,374,463 births in British India during 1945. This gives a birth rate of 27.3 per mille, and indicates that the tendency towards a falling birth rate noticed in recent years may be lessening. During the quinquennium 1937-41 the maximum recorded birth rate was 34.5 per mille, and the minimum was 32.0 per mille. In the years 1942 to 1944 it fell successively from 29.3 in 1942 to 25.9 in 1943 and 25.4 in 1944. In the year 1945 the birth rate increased by 1.9 per mille over the rate in 1944 but the birth rate in 1945 did not reach the normal level of the pre-war years. This increase in birth rate was shown by most of the provinces which had recorded a marked fall in birth rate in the previous years. The United Provinces, Bihar, Orissa, Bengal, Ajmer-Merwara, the Central Provinces and Delhi all showed a clear increase in birth rate. The rates in all these provinces with the exception of the last two were still much below the pre-war level. The highest increase was shown by Bengal from the low birth rate of 15.6 per mille in 1944 to 20.8 per mille in 1945. A decrease compared to the 1944 rate was nowhere considerable except in the case of Sind where the birth rate fell from 14.5 per mille in 1944 to 13.6 in 1945 but the Sind figures must be regarded with caution as being partly due to inefficient registration. The North-West Frontier Province and the Punjab showed a further slight decrease this year. The position in the remaining provinces, *viz.*, Bombay, Madras, Coorg and Assam did not show much variation over that in 1944. During the year 1945, the Punjab, Delhi and the Central Province continued their record of a birth rate well over 35 per mille. As has been remarked in the Preliminary Note the decrease in birth rate in British India in the recent years is a subject of considerable interest particularly in view of the last intercensus rate of increase in British India which gave rise to apprehensions of a fast increasing population.

# BIRTH AND DEATH RATES PER MILLE AND INFANTILE MORTALITY RATES PER 1,000 LIVE BIRTHS IN BRITISH INDIA DURING 1926-1945





MONTHLY SMALLPOX MORTALITY IN BRITISH INDIA  
IN 1941-1945



(CHART-VII)

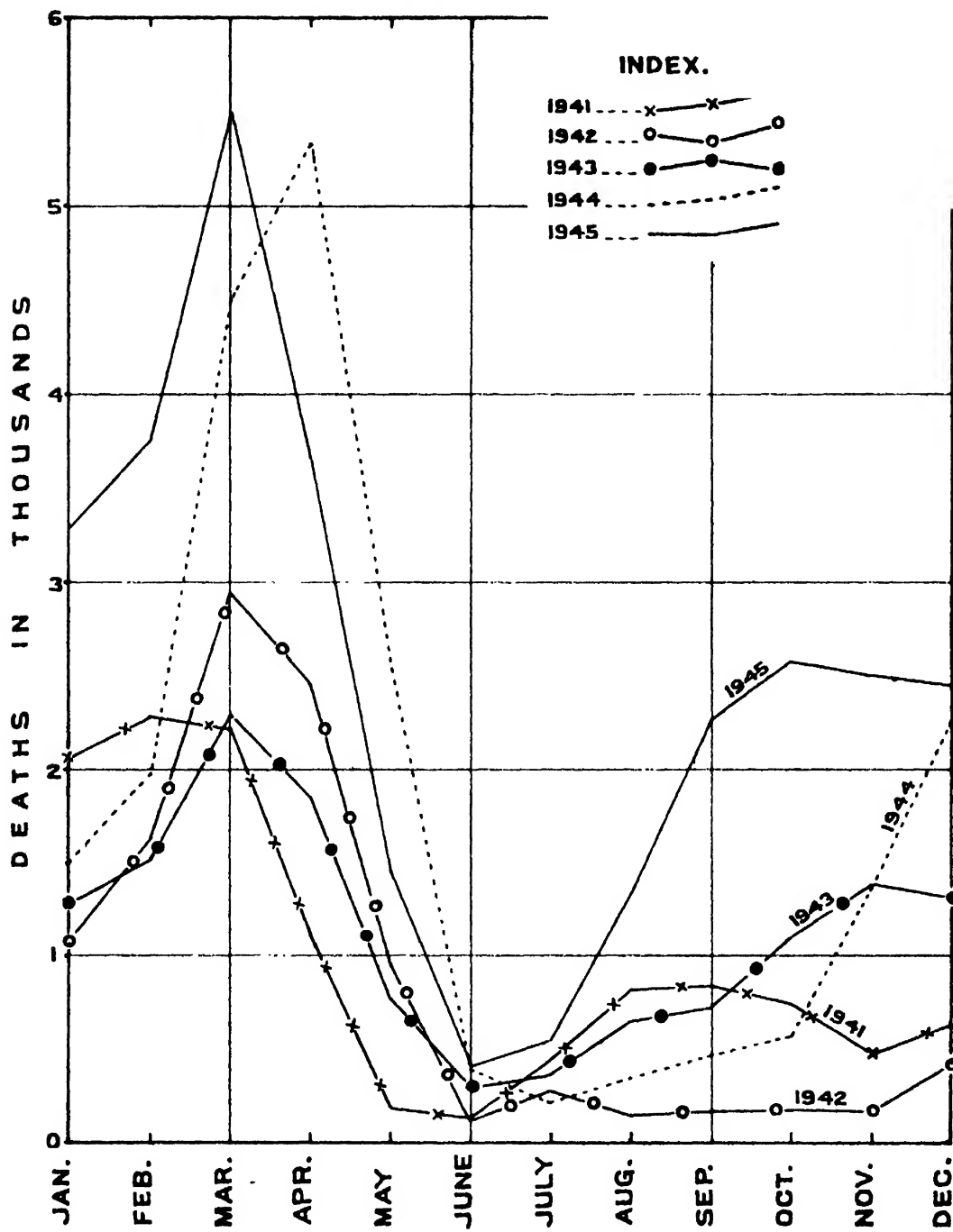
TABLE 19.—DEATHS FROM SMALLPOX BY MONTHS AND DEATHS IN CHILDREN DURING THE YEAR 1945.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Deaths in children			Percentage of deaths to total mortality from smallpox.
													Under one year.	1—10 years.	Total	Under one year.
<b>North-West Frontier Province</b>	32	5	24	10	20	52	22	20	10	10	29	102	83	245	333	26.2
<b>Punjab</b>	215	172	155	167	248	320	251	87	39	34	70	169	466	1,025	1,491	24.2
<b>Delhi</b>	4	2	16	14	15	11	..	3	..	..	1	2	17	32	49	25.0
<b>United Provinces</b>	1,112	1,256	2,446	3,875	4,907	3,912	2,486	1,017	459	205	139	314	5,626	6,885	12,511	25.4
<b>Bihar</b>	1,162	1,111	2,471	4,461	5,958	4,799	2,742	1,233	540	341	351	463	1,335	2,577	3,912	5.2
<b>Orissa</b>	817	1,240	2,152	1,963	1,704	1,128	900	598	370	354	303	489	544	1,590	2,134	4.5
<b>Bengal</b>	4,610	5,216	8,005	6,501	5,944	3,454	1,553	623	269	141	181	356	1,894	6,140	8,034	5.1
<b>Central Provinces</b>	386	484	1,109	1,563	1,853	1,297	798	353	206	155	106	131	2,721	3,497	6,218	32.2
<b>Bombay</b>	335	437	903	914	657	397	180	104	51	45	118	558	1,602	1,442	3,044	34.0
<b>Sind</b>	7	5	27	7	23	15	18	10	2	2	..	5	26	67	93	21.4
<b>Madras</b>	2,141	2,973	3,145	2,914	2,116	1,569	1,522	1,237	855	751	646	767	4,283	7,287	11,570	20.8
<b>Coorg</b>	43	62	19	15	11	6	3	..	..	..	..	..	16	14	30	10.1
<b>Assam</b>	534	446	464	661	571	387	279	112	146	75	72	91	241	445	686	6.3
<b>Ajmer-Merwara</b>	22	7	35	38	35	30	22	11	1	2	9	18	49	135	184	21.3
<b>British India</b>	11,420	13,416	20,971	23,103	24,082	17,377	10,776	5,408	2,948	2,115	2,025	3,465	18,908	31,381	50,289	13.8
																22.9

TABLE 20.—DEATHS FROM PLAGUE BY MONTHS AND NUMBER OF ANTI-PLAGUE INOCULATIONS PERFORMED DURING THE YEAR 1945

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	No. of anti-plague inoculations.
North West Frontier Province . . .	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab . . . . .	..	5	67	63	41	3	..	..	..	..	..	24	195,176
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	34
United Provinces. . . . .	1,853	2,245	4,171	3,075	1,216	311	136	38	36	65	184	594	535,584
Bihar . . . . .	103	163	341	303	93	14	4	9	31	31	109	317	235,115
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..
Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	22
Central Provinces . . . . .	89	124	192	29	..	2	1	56	14	31	23	14	38,247
Bombay . . . . .	919	897	639	154	61	40	377	1,140	2,058	2,305	2,000	1,189	662,330
Sind . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	7
Madras . . . . .	324	234	87	38	32	46	36	92	122	147	188	308	615,238
Coorg . . . . .	..	1	..	..	..	..	..	..	..	2	..	..	4,000
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..
Ajmer-Merwara . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..
British India . . . . .	3,288	3,764	5,497	3,663	1,443	416	554	1,885	2,981	2,581	2,504	2,446	2,285,743

MONTHLY PLAGUE MORTALITY IN BRITISH INDIA  
IN 1941-1945



(CHART-VIII)



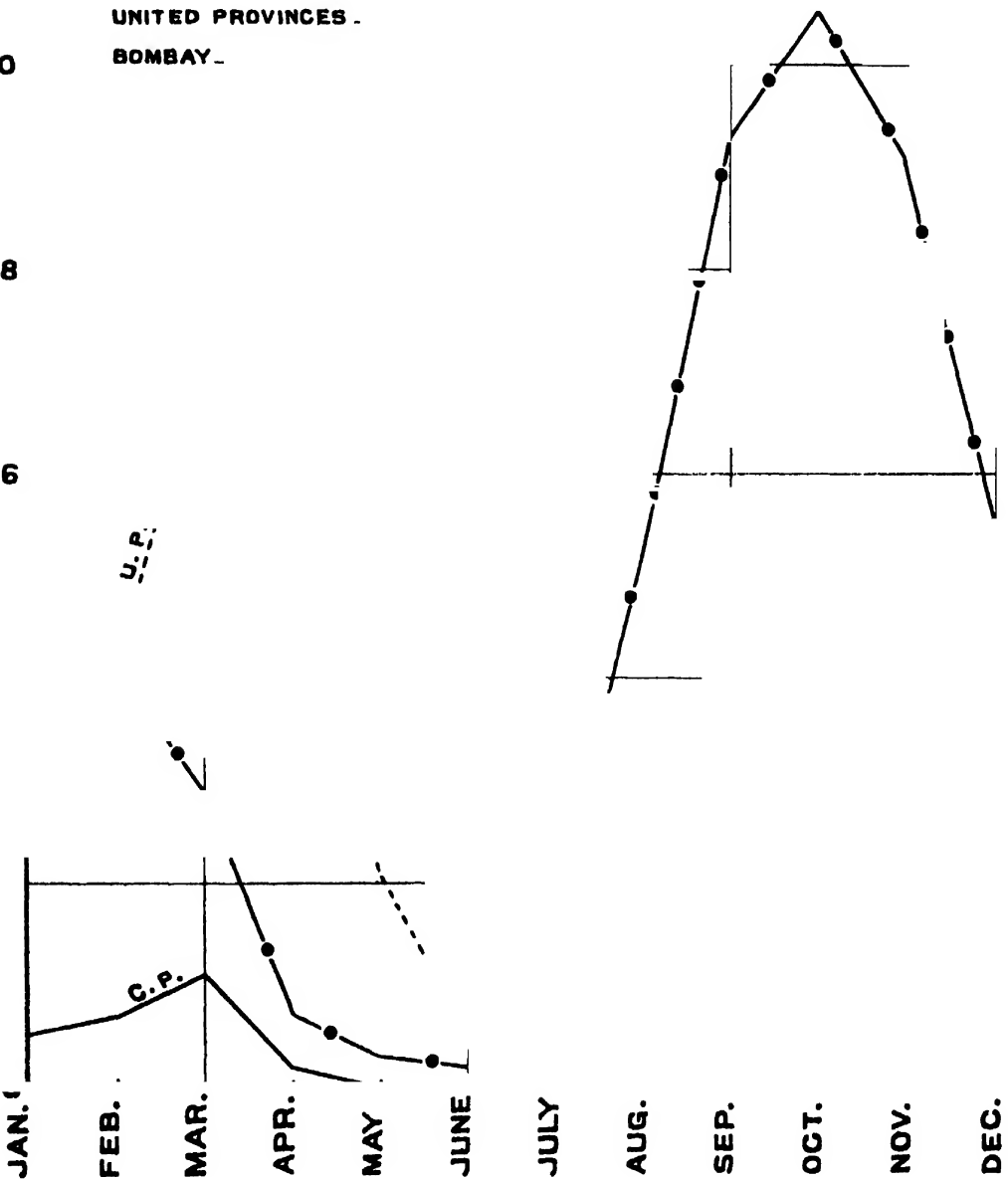
MONTHLY DEATH RATES PER 1,00,000 POPULATION  
FROM PLAGUE IN BRITISH INDIAN PROVINCES  
HEAVILY AFFECTED IN 1945

12,

INDEX.

CENTRAL PROVINCES...-  
UNITED PROVINCES...  
BOMBAY...

RATE PER 1,00,000 POPULATION



(CHART - XIV)



TABLE 21.—DEATHS FROM FEVERS INCLUDING MALARIA BY MONTHS AND REPORTED MALARIA DEATHS IN RURAL AND URBAN AREAS DURING THE YEAR 1945

	Jan.	Feb.	Mar.	April	May	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Reported Malarial Deaths		
													Rural	Urban	Total
North West Frontier Province.	3,570	2,950	2,792	2,310	2,160	2,195	2,173	1,854	2,073	2,283	2,590	3,215	*	103†	*
Punjab . . . . .	48,091	36,401	35,172	30,850	37,332	36,641	30,950	32,218	34,543	37,535	39,474	40,375	4,085	1,555	5,640
Delhi . . . . .	207	177	255	308	411	423	316	338	441	417	311	239	71	717	788
United Provinces . . . . .	59,970	52,979	63,049	67,744	70,503	85,852	71,513	66,657	67,611	67,302	64,978	66,434	695,531	27,883	723,414
Bihar . . . . .	53,532	36,355	48,329	51,662	57,275	63,198	56,644	51,132	48,659	48,458	44,245	53,763	*	972†	*
Orissa . . . . .	11,767	9,910	10,795	10,027	10,564	8,753	7,839	10,033	9,363	10,647	10,414	11,473	*	507†	*
Bengal . . . . .	88,502	72,346	77,981	69,493	68,030	54,385	51,819	50,475	55,142	65,181	79,071	73,544	510,735	5,364	516,099
Central Provinces . . . . .	23,104	20,794	23,193	28,509	34,606	36,060	27,455	33,406	37,286	38,048	33,975	30,946	289,716	19,529	309,245
Bombay . . . . .	16,464	13,890	16,924	15,967	17,106	14,427	15,928	18,321	18,257	17,329	17,937	17,988	36,937	4,694	41,631
Sind . . . . .	3,882	2,648	2,566	2,275	2,289	2,038	1,829	1,786	1,709	2,023	2,210	2,752	484	1,520	2,004
Madras . . . . .	20,893	25,451	26,156	23,507	26,231	23,579	23,680	25,622	25,342	23,855	21,335	26,527	*	1,710†	*
Coorg . . . . .	235	190	161	158	212	210	275	178	166	169	169	158	--	--	--
Assam . . . . .	8,097	6,816	6,198	6,075	7,251	8,365	8,737	6,824	7,213	6,937	7,934	7,545	*	339	*
Ajmer-Merwara . . . . .	1,111	1,154	1,143	9,33	918	852	626	840	1,090	769	643	987	*	20†	*
British India . . . . .	348,425	282,061	317,712	309,127	341,828	336,977	290,429	299,684	308,895	320,993	325,286	340,940	1,537,559	64,913	1,598,821 *

\*Not available.

†For municipalities only.

‡For municipal towns only.

{ Gives totals only as they do not represent British India total completely.

a Represents total for each province as give rural and urban figures both.



TABLE 22.—DEATHS FROM DYSENTERY AND DIARRHOEA BY MONTHS DURING THE YEAR 1945

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North West Frontier Province.	13	7	18	21	20	5	15	12	47	17	13	23
Punjab . . . . .	487	340	376	521	833	861	606	736	964	809	672	687
Dalhi . . . . .	42	23	44	92	96	107	56	187	104	88	72	67
United Province . . . . .	854	629	937	1,503	2,246	2,184	1,718	2,437	2,366	1,983	1,376	1,155
Bihar . . . . .	264	231	250	309	355	417	328	402	400	271	235	284
Orissa . . . . .	1,490	1,307	1,390	1,318	1,473	1,690	1,962	1,446	1,304	1,247	1,059	1,401
Bengal . . . . .	4,602	3,482	4,315	5,078	4,762	3,403	3,279	3,008	2,907	3,328	3,659	3,870
Central Province . . . . .	1,222	953	1,205	1,244	1,719	1,565	2,569	8,043	6,522	4,376	2,693	1,853
Bombay . . . . .	1,078	928	1,083	1,161	1,517	1,584	2,597	3,698	2,778	1,891	1,541	1,353
Kind . . . . .	117	74	66	63	59	65	66	116	93		58	48
Madr . . . . .	9,694	6,511	6,952	5,144	6,040	5,817	6,321	8,029	7,734		5,144	5,946
Goorg . . . . .	9	7	13	1	7	4	9	7	10		2	12
Assam . . . . .	838	693	563	609	781	701	683	685	726		883	828
Ajmer-Merwara . . . . .	19	20	21	33	23	28	24	66	53		25	13
British India . . . . .	20,735	15,204	16,233	17,097	19,981	18,431	20,233	28,871	26		7,431	17,544

TABLE 23.—DEATHS FROM RESPIRATORY DISEASES BY MONTHS AND REPORTED DEATHS FROM PULMONARY TUBERCULOSIS DURING THE YEAR 1945—

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Reported deaths from Pulmonary Tuberculosis.	
													Rural.	Urban.
North-West Frontier Province	282	229	185	133	86	135	88	84	82	116	162	170	•	308†
Punjab . . . . .	8,085	6,797	6,248	4,386	3,610	3,205	2,818	2,827	3,123	3,495	4,590	6,008	7,140	2,071
Delhi . . . . .	566	405	510	432	421	491	205	436	395	477	528	657	80	828
United Provinces . . . . .	3,868	3,298	3,565	3,360	3,515	3,347	2,512	2,675	2,777	2,948	2,935	3,529	679	4,297
Bihar . . . . .	281	214	278	246	243	260	274	281	221	219	201	249	•	95†
Orissa . . . . .	383	369	403	320	367	427	390	336	324	309	291	488	•	26†
Bengal . . . . .	8,386	7,569	8,275	6,750	6,291	5,092	4,776	4,698	5,008	5,802	7,349	8,708	7,074	4,027
Central Provinces . . . . .	3,324	3,121	3,811	3,876	3,903	3,769	3,244	4,499	4,708	4,627	4,100	3,974	910	493
Bombay . . . . .	9,317	8,376	9,530	8,273	8,204	7,322	8,236	9,428	9,175	8,865	9,327	9,941	14,737	7,610
Sind . . . . .	1,378	847	867	623	622	586	532	585	541	489	580	762	•	•
Madras . . . . .	10,134	8,193	8,592	7,627	8,145	7,401	8,037	8,675	8,509	8,217	8,303	9,227	•	6,977‡
Ceorg . . . . .	1	3	7	7	7	3	6	..	9	9	6	12	•	•
Assam . . . . .	328	269	295	253	224	212	250	266	286	319	411	428	•	34†
Ajmer-Merwara . . . . .	188	142	171	179	171	110	82	137	101	118	118	105	•	272†
British India . . . . .	47,421	39,852	42,737	36,465	35,799	32,450	31,590	34,927	35,259	36,010	38,901	44,258	30,620*	27,030*

\*Not available.

†For Municipalities only.

‡For municipal towns only.

\*Gives totals only and do not represent

British India figures completely

**TABLE 24.—PATIENTS TREATED FOR DIFFERENT KINDS OF TUBERCULOSIS IN HOSPITALS AND OTHER INSTITUTIONS DURING THE YEAR 1945**

No. of Patients treated for											
	No. of Hospitals and other Institutions reporting.	No. of Patients treated for									Total
		Pulmonary Tuber- culosis of glands.	Osteoarti- cular Tuber- culosis.	Meningeal Tuber- culosis.	Abdominal Tuber- culosis.	Tuber- culosis of the skin.	Spinal Tuber- culosis.	Genito Urinary tuber- culosis.	All other forms of Tuber- culosis.		
North-West Frontier Province	11	6,444	348	200	..	194	3	93	3	417	7,701
Punjab	31	6,530	1,910	895	515	1,684	227	85	85	1,474	13,405
Delhi	3	1,631	288	114	1	157	7	40	17	39	2,294
United Provinces	50	12,641	2,906	616	23	3,151	447	444	69	7,974	28,271
Bihar	16	6,258	533	79	1	153	46	34	9	1,900	9,013
Orissa	6	135	37	23	..	6	..	3	..	35	239
Bengal	31	10,001	*	*	*	*	*	*	*	2,363†	12,364
Central Provinces	41	3,527	366	128	10	485	56	123	1	516	5,197
Bombay	27	13,559	1,004	208	3	289	13	66	4	94	15,244
Sind	11	2,873	1,240	311	3	140	24	47	13	281	4,936
Madras	38	27,531	3,015	1,686	144	1,722	196	1,018	103	5,402	40,867
Coorg	2	82	14	7	1	1	2	1	..	7	115
Assam	15	531	61	6	..	6	2	4	..	26	636
Ajmer-Merwara	3	318	138	19	2	48	1	14	1	19	560

\*Not available.

†Total non-pulmonary.

TABLE 20.—DEATHS AND RATE PER MILE FROM CERTAIN CAUSES OR GROUPS OF CAUSES OF MORTALITY IN INDIAN STATES DURING THE YEAR 1945

State	Cholera		Smallpox		Plague		Fever		Dysentery & Diarrhoea		Respiratory Diseases		Other Causes		Total	
	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.
Hyderabad State*	26,801	1.6	4,327	0.3	11,750	0.7	68,261	4.0	4,276	0.3	1,980	1.2	40,270	2.3	157,665	9.3
<b>MADRAS STATES</b>																
Cochin*	..	..	741	0.5	1	..	3,386	2.2	691	0.5	1,204	0.8	4,946	3.3	10,969	7.3
Travancore	..	..	621	0.1	..	..	17,368	2.7	4,315	0.7	8,325	1.3	25,806	5.5	66,635	10.3
<b>RAJPUTANA STATES</b>																
Dholpur	101	0.3	67	0.2	..	..	689	2.3	..	..	..	..	181	0.6	1,038	3.5
Jodhpur	1	0.01	18	0.1	..	..	1,518	10.8	118	0.8	457	3.3	..	..	2,112	15.0
<b>EASTERN STATES</b>																
Daspalla	208	3.6	36	0.6	..	..	699	12.0	119	2.0	73	1.3	807	13.8	1,942	33.3
Hindol	22	0.4	34	0.5	..	..	399	6.4	449	7.2	87	1.4	624	10.0	1,615	25.8
Khandpara	694	7.0	..	..	..	..	995	10.9	175	1.9	63	0.7	1,613	17.6	3,545	38.8
Nayagarh	633	3.7	10	0.06	..	..	1,969	11.6	506	3.0	265	1.6	3,014	17.7	6,398	37.7
Nilgiri	6	0.08	37	0.5	..	..	1,217	16.2	78	1.03	24	0.3	673	9.0	2,035	27.2
Mayurbhanj	20	0.02	1,019	1.0	..	..	13,273	12.8	350	0.3	65	0.06	3,139	3.0	17,866	17.3
Gangpur	1	0.00	288	0.7	..	..	6,769	16.3	532	1.3	256	0.6	2,548	6.1	10,394	25.0
Keonjhar	522	0.9	1,317	2.4	..	..	8,980	16.0	145	0.3	8	0.01	1,518	2.7	12,490	22.3
Bastar	..	..	165	0.2	..	..	10,080	14.8	606	0.9	315	0.5	1,054	1.6	12,220	17.9
Kanker	6	0.04	157	1.0	..	..	3,268	21.0	48	0.3	94	0.6	..	..	3,573	23.0
Kawardha	25	0.3	101	1.3	..	..	1,887	23.8	35	0.4	†	†	720	9.1	2,768	34.9
Nandgarh	437	2.1	212	1.0	..	..	6,139	24.3	163	0.8	..	..	1,251	5.9	7,202	34.0
Raigarh	1,571	4.8	746	2.3	..	..	6,704	20.4	143	0.4	..	..	333	1.0	9,497	29.0

\*Relates to the year 1945—46.

†Not available.

TABLE 25.—DEATHS AND RATES PER MILE FROM CERTAIN CAUSES OR GROUPS OF CAUSES OF MORTALITY IN INDIAN STATES DURING THE YEAR 1.45—*contd.*

State	Cholera		Smallpox		Plague		Fever		Dysentery & Diarrhea		Respiratory Diseases		Other Causes		Total	
	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.	Deaths	Rate p.m.
<b>CENTRAL INDIA AGENCY</b>																
Bhopal . .	159	0.2	39	0.05	5	0.01	13,858	17.1	183	0.2	10	0.01	889	1.1	15,147	18.7
Rajgarh . .	428	2.8	105	1.3	..	..	502	3.2	204	1.3	71	0.5	..	..	14,000	9.1
<b>BARODA AND GUJARAT STATES AGENCY</b>																
Cambay . .	3	0.03	4	0.04	..	..	2,307	23.0	85	0.8	168	1.7	392	3.9	2,959	29.5
Dharampur . .	..	..	99	0.8	..	..	1,922	15.0	447	3.5	27	0.2	42	0.3	2,537	19.8
<b>KOLHAPUR AND DECCAN STATES</b>																
Kolhapur . .	199	0.3	33	0.03	705	0.6	11,085	9.6	1,706	1.6	3,297	2.9	9,487	8.2	26,602	23.1
Jamkhandi . .	74	0.6	2	0.02	27	0.2	1,670	12.7	147	1.1	11	0.08	1,326	10.1	3,257	24.8
<b>WESTERN INDIA STATES AGENCY</b>																
Miraj Senior . .	64	0.6	56	0.5	207	1.8	1,017	8.9	93	0.8	341	2.9	892	7.8	2,670	23.2
<b>PUNJAB STATES</b>																
Nabha . .	63	0.2	75	0.2	..	..	4,265	11.8	250	0.7	751	2.1	373	1.02	5,777	15.9
Chamba . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Rural Areas.

Provinces	Distributed free						Sold				Total						Total		
	Quinine		Cin- chona		Other		Quinine		Cin- chona		Other		Quinine		Cin- chona			Other	
	Quinine	Febrifuge	Quinine	Febrifuge	Quinine	Febrifuge	Quinine	Febrifuge	Quinine	Febrifuge	Quinine	Febrifuge	Quinine	Febrifuge	Quinine	Febrifuge		Quinine	Febrifuge
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.			
North-West Frontier Province	713	61	1	..	318	266	..	..	..	304	979	61	1	..	622	1,063			
Punjab	2,018	3	..	12	199	2,132	..	..	4	1,179	4,150	3	..	16	1,378	5,547			
Delhi	66	..	..	..	47	..	..	..	..	..	66	..	..	..	47	112			
United Provinces	1,276	618	115	..	†	5,251	1,742	..	..	†	6,527	2,360	115	..	†	9,002			
Bihar	85	..	..	717	1,412	804	1	..	43,455	399	899	1	..	44,172	1,811	46,883			
Orissa	276	222	4	9	83	110	4	..	..	25	386	226	4	9	108	733			
Bengal†	580	144	3	3	20	602	16	..	..	33	1,182	160	3	3	53	1,401			
Central Provinces	697	28	104	64	†	598	2	8	11	†	1,295	30	112	75	†	1,512			
Bombay	209	2,952	10	..	81	369	131	232	739*	75	578	3,083	242	739*	156	4,059			
Sind †	77	138	..	..	†	23	6	..	..	†	100	144	..	..	†	244			
Madras	1,466	600	2	8	1,227	4,121	185	..	150	5,531	5,587	785	2	158	6,758	13,290			
Coorg	10	11	..	..	13	14	..	..	..	3	33	11	..	..	16	60			
Assam	7,492	4,777	239	813	3,400	14,290	2,087	240	43,650	7,549	21,732	6,864	479	44,433	10,949	84,507			
Ajmer Merwara	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			

\*Quinine Bi-Hydrochloride Ampoule boxes.

†Not available.

‡Not recorded separately.

§And besides 739 ampoule boxes of Quinine Bi-hydrochloride.

TABLE 26.—DISTRIBUTION OF QUININE, CINCHONA FEBRIFUGE, TOTAQUINA AND OTHER CINCHONA ALKALOIDS DURING THE YEAR 1945—  
*contd.*

*Urban Areas.*

Provinces	Distributed free					Sold					Total					Total Columns 12-16
	Quinine lbs.	Cinchona lbs.	Total-Febrifuge quina lbs.	Other Cinchona lbs.	Alkaloids tutes if any	Quinine lbs.	Cinchona lbs.	Total-Febrifuge quina lbs.	Other Cinchona lbs.	Alkaloids tutes if any	Quinine lbs.	Cinchona lbs.	Total-Febrifuge quina lbs.	Other Cinchona lbs.	Alkaloids tutes if any	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
North-West Frontier Province	328	100	1	..	167	436	..	30	..	373	764	100	31	..	540	1,435
Punjab	1,055	12	..	8	60	4,032	5	..	31	1,342	5,037	17	..	39	1,402	6,545
Delhi	181	..	..	..	42	493	..	..	..	119	674	..	..	..	161	835
United Provinces	810	421	169	..	†	2	..	..	..	†	812	421	159	..	†	1,392
Bihar	..	..	..	167	225	2,477	2	..	2,559	751	2,477	2	..	2,726	976	6,181
Orissa	184	63	2	5	17	39	1	..	2	19	223	64	2	7	36	332
Bengal†	475	139	138	1	63	201	54	..	..	45	676	193	138	1	108	1,116
Central Provinces	348	12	133	124	†	3	3	2	2	†	351	15	135	126	†	627
Bombay	24	159	..	..	3	4,196	5,249	2,197	2,012*	421	4,220	5,408	2,197	2,012*	424	12,249†
Madras	99	115	..	..	†	52	8	..	..	†	161	123	..	..	†	274
Coorg	1,196	145	..	2	882	354	14	..	..	168	1,550	159	..	2	1,050	2,761
Assam	124	41	..	..	34	95	3	..	..	35	219	44	..	..	69	332
Ajmer Merwara	4,824	1,207	433	307	1,493	12,380	5,339	2,229	2,594	3,273	17,204	6,546	2,662	2,901	4,763	34,079
TOTAL (Urban)																

\*Quinine Bi-Hydrochloride ampoule boxes.  
†Not available

TABLE 26.—DISTRIBUTION OF QUININE, CINCHONA FEBRIFUGE, TOTAL QUINA AND OTHER CINCHONA ALKALOIDS DURING THE YEAR 1945—  
concl'd.

Provinces	Distributed free						Sold	Total						Total						Total
	Quinine Cinchona Tota. Febrifuge quina			Other Cinchona Substi- Alkaloids tutes if any				Quinine Cinchona Tota. Febrifuge quina			Other Cinchona Substi- Alkaloids tutes if any			Quinine Cinchona Tota. Febrifuge quina			Other Cinchona Substi- Alkaloids tutes if any			
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.		lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
North-West Frontier Provinces																				
Punjab	1,041	161	2	..	485	702	..	30	..	677	1,743	161	32	..	1,162	3,098				
Delhi	3,073	15	..	20	259	6,164	5	..	35	2,521	9,237	20	..	55	2,780	12,092				
	247	..	..	..	89	493	..	..	..	119	740	..	..	..	208	948				
United Provinces	2,086	1,039	274	..	†	5,253	1,742	..	..	†	7,339	2,781	274	..	†	10,394				
Bihar	95	..	..	884	1,637	3,281	3	..	46,014	1,150	3,376	3	..	46,898	2,787	53,064				
Orissa	460	285	6	14	100	149	5	..	2	44	609	290	6	16	144	1,065				
Bengal†																				
Central Provinces	1,055	283	141	4	83	803	70	..	..	78	1,858	353	141	4	161	2,517				
Bombay	1,045	40	237	188	†	601	5	10	13	†	1,646	45	247	201	†	2,139				
Sind	1,007	125	775	..	535	3,712	127	296	..	2,229	4,719	252	1,071	..	2,764	8,806				
Madras	233	3,111	10	..	84	12,893*	6,315*	2,429	20,584†	1,802*	13,126*	426*	2,439	20,584†	1,886*	26,877‡				
Coorg	175	253	..	..	†	75	14	..	..	†	250	267	..	..	†	517				
Assam	2,661	744	2	10	2,109	4,475	199	..	150	5,699	7,136	943	2	160	7,808	16,049				
Ajmer-Merwara	143	52	..	..	47	109	3	..	..	38	252	55	..	..	85	392				
British India	13,321	6,108	1,447	1,120	5,428	38,710	8,488	2,765	46,214	14,357	52,031	14,596	4,212	47,334	19,785	137,958				

\*Includes quantity sold by post offices and members of the general public for which distribution by rural and urban is not available.

†Not available.

‡Quinine Bi-Hydrochloride ampoule boxes. Includes quantity sold by members of the general public for which distribution by rural and urban is not available.

§ And besides 20,584 ampoule boxes of Quinine Bi-Hydrochloride.





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### **SECTION III**

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**TABLE 27.—MATERNAL DEATH RATES PER 1,000 OF LIVE AND STILL BIRTHS FOR CERTAIN TOWNS IN BRITISH INDIA DURING THE YEAR 1945**

	Deaths.	Rate per mille.		Deaths.	Rate per mille.
<b>North-West Frontier Province.—</b>			<b>United Provinces—contd</b>		
Peshawar . . . . .	5	1.5	Gorakhpur . . . . .	37	13.5
Mardan . . . . .	5	12.7	Farrukhabad-cum		
Kohat . . . . .	9	7.4	Fatehgarh . . . . .	17	6.4
Bannu . . . . .	5	3.5	Etawah . . . . .	16	7.3
Dera Ismail Khan . . . . .	6	3.9	Budaun . . . . .	14	7.9
			Amroha . . . . .	13	4.5
			Sambhal . . . . .	21	7.1
			Dehra Dun . . . . .	17	9.2
			Hathras . . . . .	18	6.1
			Jaunpur . . . . .	13	12.5
			Pilibhit . . . . .	10	4.5
			Muzaffarnagar . . . . .	12	7.3
			Bahraich . . . . .	7	4.8
			Hardwar-Union . . . . .	19	11.3
			Khurja . . . . .	3	7.7
			Ferozabad . . . . .	14	13.6
			Hapur . . . . .	3	17.4
			Ghazipur . . . . .	13	10.6
			Balrampur . . . . .	1	1.2
<b>Punjab—</b>			<b>Bihar—</b>		
Hissar . . . . .	6	5.9	Patna . . . . .	4	1.6
Bhiwani . . . . .	12	5.6	Bihar . . . . .	2	1.4
Rohtak . . . . .	2	1.3	Dinapur Nizamat . . . . .	..	..
Rewari . . . . .	..	..	Gaya . . . . .	76	51.0
Karnal . . . . .	8	6.0	Arrah . . . . .	..	..
Panipat . . . . .	2	1.1	Chapra . . . . .	22	18.9
Ambala . . . . .	9	5.4	Bettiah . . . . .	..	..
Hoshiarpur . . . . .	..	..	Muzaffarpur . . . . .	1	1.9
Jullundur . . . . .	7	1.4	Darbhanga . . . . .	1	1.1
Ludhiana . . . . .	13	3.0	Monghyr . . . . .	..	..
Ferozepore . . . . .	10	5.0	Jamalpur . . . . .	..	..
Fazilka . . . . .	6	6.0	Bhagalpur . . . . .	..	..
Moga . . . . .	4	3.8	Ranchi . . . . .	6	6.3
Lahore . . . . .	151	5.4	Purulia . . . . .	..	..
Kasur . . . . .	10	4.1	Jamshedpur . . . . .	88	37.3
Amritsar . . . . .	106	7.8			
Batal . . . . .	..	..			
Sialkot . . . . .	17	3.3	<b>Orissa—</b>		
Gujranwala . . . . .	13	4.9	Cuttack . . . . .	..	..
Wazirabad . . . . .	..	..	Berhampur . . . . .	14	8.2
Gujrat . . . . .	2	1.5	Puri . . . . .	10	7.8
Sargodha . . . . .	12	9.1			
Jhelum . . . . .	6	7.0	<b>Bengal Presidency—</b>		
Rawalpindi . . . . .	5	1.0	Burdwan . . . . .	12	18.5
Montgomery . . . . .	3	3.1	Asansol . . . . .	..	..
Lyallpur . . . . .	8	2.6	Bankura . . . . .	6	15.4
Jhang Maghiana . . . . .	7	4.8	Midnapur . . . . .	13	33.4
Chiniot . . . . .	8	5.8	Hooghly-Chinsura . . . . .	..	..
Multan . . . . .	55	1.1	Serampur . . . . .	10	11.9
D. G. Khan . . . . .	2	2.1	Champdani . . . . .	..	..
			Howrah . . . . .	79	14.1
			Bally . . . . .	1	1.8
			South Suburban . . . . .	3	3.6
			Tollyganj . . . . .	1	2.7
			Garden Reach . . . . .	10	13.0
			Budge Budge . . . . .	2	7.4
			Baranagar . . . . .	6	5.8
			Kamarhati . . . . .	5	8.5
			Titagarh . . . . .	5	4.8
			Naihati . . . . .	4	11.0
			Bhatpara . . . . .	32	14.8
			Calcutta . . . . .	203	6.7
			Krishnagarh . . . . .	4	7.7
			Nabadwip . . . . .	9	11.7
			Berhampur . . . . .	16	31.9
<b>Delhi Province—</b>					
Delhi City . . . . .	110	4.6			
New Delhi . . . . .	5	1.1			
<b>United Provinces—</b>					
Sitapur . . . . .	1	0.8			
Lucknow . . . . .	98	6.4			
Cawnpore . . . . .	288	17.9			
Agra . . . . .	61	3.5			
Bonares . . . . .	123	9.7			
Allahabad . . . . .	104	12.4			
Bareilly . . . . .	22	3.4			
Moradabad . . . . .	79	11.5			
Meerut . . . . .	42	7.3			
Koil-Aligarh . . . . .	30	8.2			
Shahjahanpur . . . . .	25	7.1			
Saharanpur . . . . .	35	7.1			
Jhansi . . . . .	25	5.8			
Mirzapur-Bindhyachal . . . . .	4	1.5			
Muttra . . . . .	38	9.1			
Fyzabad-Ajodhya . . . . .	14	7.2			

TABLE 27.—MATERNAL DEATH RATES PER 1,000 OF LIVE AND STILL BIRTHS FOR CERTAIN TOWNS IN BRITISH INDIA DURING THE YEAR 1945—*contd.*

	Deaths.	Rate per mille.		Deaths	Rate mille
<i>Bengal Presidency—contd.</i>			<i>Bombay Presidency—contd.</i>		
Khulna . . . .	18	47.7	Ahmednagar . . . .	11	4.0
Rajshahi . . . .	6	9.5	Thana . . . . .	2	2.4
Rangpur . . . .	9	15.6	Kalyan . . . . .	1	1.1
Pabna . . . . .	3	8.5	Poona City . . . .	40	4.6
Sirajganj . . . .	9	108.4	Poona Cantonment .	..	
Dacca . . . . .	51	9.8	<i>Sind—</i>		
Narayanganj . . .	10	8.0	Karachi . . . . .	32	1.8
Mymensingh . . .	9	26.5	Hyderabad . . . .	52	15.7
Barisal . . . . .	5	4.8	Sukkur . . . . .	25	10.6
Chittagong . . . .	13	11.9	Shikarpur . . . .	49	22.1
Comilla . . . . .	3	14.0	<i>Madras Presidency—</i>		
Brahmanbaria . . .	4	4.7	Vizagapatam . . . .	41	17.9
Chandpur . . . . .	3	22.4	Vizainagar . . . .	18	9.7
<i>Central Provinces—</i>			Cocanada . . . . .	27	13.6
Nagpur City . . . .	85	6.3	Rajahmundry . . . .	30	11.4
Nagpur Civil Station. }			Ellore . . . . .	22	9.6
Wardha . . . . .	11	7.9	Bezwada . . . . .	48	12.2
Chanda . . . . .	23	15.2	Masulipatam . . . .	12	5.0
Jubbulpore . . . .	41	9.3	Guntur . . . . .	75	18.7
Saugor . . . . .	6	3.3	Tenali . . . . .	15	8.5
Khandwa . . . . .	27	13.9	Nellore . . . . .	52	16.8
Burhanpur . . . .	47	16.8	Madras . . . . .	155	4.9
Raipur . . . . .	9	6.5	Conjeevaram . . . .	40	20.5
Bilaspur . . . . .	21	16.8	Saidapet . . . . .	1	1.0
Amraoti . . . . .	34	12.4	Cuddalore . . . . .	42	19.9
Ellichpur . . . . .	28	18.5			
Akola . . . . .	21	10.8			
<i>Bombay Presidency—</i>			Trichinopoly . . . .	74	13.3
Satara . . . . .	10	10.1	Tanjore . . . . .	52	20.6
Sholapur . . . . .	44	4.6	Kumbakonam . . . .	57	22.1
Barsi . . . . .	17	10.2	Negapatam . . . . .	30	20.7
Pandharpur . . . .	2	1.4	Mayavaram . . . . .	17	14.9
Bijapur . . . . .	6	5.1	Madura . . . . .	79	7.2
Belgaum . . . . .	24	16.6	Dindigul . . . . .	23	10.8
Dharwar . . . . .	6	5.0	Palamcottah . . . .	19	14.2
Hubli . . . . .	16	5.8	Virudhungar . . . .	20	13.0
Gadag Betigeri . . .	10	5.7	Srivilliputhur . . . .	19	16.4
Jalgaon . . . . .	24	12.6	Pajapalayam . . . .	38	21.5
			Tuticorin . . . . .	26	10.2
Amalner . . . . .	..	..	Tirunelveli . . . .	17	8.8
Bhusawal . . . . .	3	2.9	Vellore . . . . .	39	11.3
Dhulia . . . . .	15	9.2	Tiruvannamalai . . .	11	8.4
Surat . . . . .	425	57.2	Gudiyattam . . . .	27	21.8
Broach . . . . .	80	33.1	Vaniyambodi . . . .	14	16.6
Nadiad . . . . .	55	26.0	Salem . . . . .	56	11.1
Godhra . . . . .	49	65.3	Coimbatore . . . . .	71	13.2
Ahmedabad . . . . .	644	27.2	Erode . . . . .	26	17.7
Malegaon . . . . .	1	0.6	Tiruppur . . . . .	19	14.5
Nasik . . . . .	1	0.6	Kurnool . . . . .	17	9.7
Bandra . . . . .	..	..	Bellary . . . . .	39	16.6
Parle-Andheri . . . .	1	1.0	Adoni . . . . .	15	9.4
Kurla . . . . .	5	3.6	Mangalore . . . . .	23	6.5
			Calicut . . . . .	48	8.5
			Palghat . . . . .	37	17.7
			Cannanore . . . . .	9	8.4
			Tellicherry . . . . .	5	4.1
			<i>Ajmer-Merwara—</i>		
			Ajmer . . . . .	26	4.2
			Beawar . . . . .	22	15.7

TABLE 18.—MATERNITY AND CHILD WELFARE CENTRES IN RURAL AND URBAN AREAS DURING THE YEAR 1945.

Centres maintained by																						
	Government				Local and Municipal bodies.				Other Agencies.				Total				Trained Visitors		Trained Midwives.		Trained dais.	
	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban		
North-West Frontier Province . . . . .	..	1	..	..	3	7	3	8	..	8	..	8	..	2	53	10						
Punjab . . . . .	1	1	30	23+19†	17	3+31†	48	20+57†	48	27+50†	*	*	2,670	2,882								
Delhi . . . . .	4	..	5	27	..	..	9	27	9	32	8	4	16	59								
United Provinces . . . . .	15	..	164†	170†	Separate figures not available.				179	170	2	29	165	170	12	..						
Bihar . . . . .	..	8	2	3	..	5	2	16	2	4	9	12	16	25								
Orissa . . . . .	..	..	4	3	4	4	8	7	..	3	18	9	33	24								
Bengal . . . . .	2	1	9	19	9	13	20	33	16	12	33	68	2,358	521								
Central Provinces . . . . .	..	..	1	7	31	50	32	57	28	54	2	1	37	668								
Bombay . . . . .	1	1	18	30	12	71	31	102	3	19	34	144	35	59								
Sind* . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..								
Madras . . . . .	4	..	148	115	6	12	158	127	17	62	160	466	..	..								
Cong . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	33	..								
Assam . . . . .	..	..	..	..	..	10	..	10	..	4	7	12	9	10								
Ajmer-Merwara . . . . .	..	..	..	1	..	7	..	8	..	1	..	12	..	8								
Total . . . . .	27	12	381	417	82	213	490	642	125	305	436	901	5,272	4,255								

\*Not available.

†For rural and urban both.

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## SECTION IV

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TABLE 29.—EXPENDITURE ON PUBLIC HEALTH BY CENTRAL AND PROVINCIAL GOVERNMENTS DURING 1945-46

	Total	Public Health Establish- ment.	Grants for Public Health purposes.	Expenses in connection with epidemic diseases.	Bacteriolo- gical labora- tories.	Pasteur Institute.	Works	Special development programme.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Central Government . . .	3,264,425	836,112	885,463	769,746	709,409	2,682	5,580	—
North-West Frontier Province .	157,049	105,134	30,631	21,284	..	..	..	..
Punjab . . . . .	4,692,562	1,762,069	1,791,759	587,478	17,701	..	1,147	..
United Provinces . . .	4,510,998	2,821,169	580,361	926,153	..	..	38,336	..
Bihar . . . . .	3,996,269	641,816	745,762	2,126,472	40,809	28,008	410,217	..
Orissa . . . . .	494,282	100,212	186,232	115,233	26,411	2,938	63,256	..
Bengal . . . . .	16,374,849	923,733	2,632,097	12,021,879	217,043	57,835	102,383	401,566
Central Provinces . . .	1,096,106	177,407	96,448	842,532	4,710	..	1,137	..
Bombay . . . . .	6,239,292	1,321,005	228,389	1,437,913	..	..	1,937,821	1,195,386
Sind . . . . .	1,166,983	201,423	317,701	589,496	43,964	4,399	..	..
Madras . . . . .	5,448,429	1,832,232	275,064	1,167,881	1,084,736	..	2,723	..
Coorg . . . . .	23,811	14,562	..	7,975	..	..	1,274	..
Assam . . . . .	2,212,703	632,678	14,099	1,261,545	19,415	232,987	51,658	..
Total	40,667,758	11,369,552	7,764,006	21,875,587	2,164,198	328,849	2,615,532	1,696,952

TABLE 30.—DISTRIBUTION OF HEALTH SERVICES IN RURAL AND URBAN AREAS DURING THE YEAR 1945.

RURAL AREAS.

	Medical graduates holding public health qualifications.				Medical Licentiates holding public health qualifications.				Epidemic Staff.	Sanitary and Health Inspectors.	Vaccinators		School Medical Officers.	Other Health Staff.
	Whole-time		Part-time		Whole-time		Part-time				Male	Female		
North-West Frontier Province	..	1	..	..	4	..	..	..	34	..	1	..	..	
Punjab*	4	..	..	..	..	..	..	8	3	..	7	..	15	
Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	
United Provinces	58	1	53	..	119**	..	..	223	810	..	..	..	..	
Bihar	16	..	44	..	620	..	..	277	1,329	..	..	..	490	
Orissa	5	..	4	3	24	..	..	59	303	5	2	..	34	
Bengal	29	3	11	..	486	..	..	907	1568	56	..	..	745	
Central Provinces	..	..	..	..	69	..	..	..	327	..	..	..	..	
Bombay	9	..	..	..	57	..	..	50	326	..	..	..	3	
Sind	1	..	..	..	..	..	..	104	88	..	..	..	..	
Madras†	23	..	29	..	66	..	..	424	635	27	..	..	169	
Coorg	..	..	1‡	..	..	..	..	..	..	..	..	..	..	
Assam	..	..	..	..	26	..	..	..	519	..	..	..	..	
Ajmer-Merwara	..	..	..	..	..	..	..	..	..	..	..	..	..	
Total	145	5	142	3	1,471	1,958	88	5,942	10	1,456				

\*Not available

\*\*Including 30 temporary medical Officers and Health Assistants and also 42 Health Assistants recruited in connection with Adh Kumbh Hardwar.

†Figures exclude Reserve Health Officers and the Provincial Staff at Headquarters.

‡For rural and urban both.

¶Includes Govt. Inspectors of Sanitation and Vaccination in each district.



TABLE 30.—DISTRIBUTION OF HEALTH SERVICES IN RURAL AND URBAN AREAS DURING THE YEAR 1945—*contd.*  
URBAN AREAS.

	Medical graduates holding public health qualifications.				Medical Licentiates holding public health qualifications.		Sanitary and Health Inspectors	Vaccinators		Inspectors of Vaccination	School Medical Officers	Other Health Staff.
	Whole-time		Part-time	Part-time	Whole-time	Female						
	Part-time	Whole-time										
North-West Frontier Province . . . . .	1	..	..	..	..	11	9	1	6	..	..	..
Punjab* . . . . .	5	..	..	..	..	..	..	..	..	..	8	27
Delhi . . . . .	2	1	1	1	..	43	20	..	..	..	13	..
United Provinces . . . . .	22	..	..	..	..	225	209	..	49§	..	..	..
Bihar . . . . .	3	2	..	..	..	38	40	2	3	..	..	71
Orissa . . . . .	2	..	..	..	..	18	11	2	1	..	..	5
Bengal . . . . .	27	..	..	..	..	121	162	32	..	..	4	58
Central Provinces . . . . .	2	..	..	..	..	70	102	..	..	..	..	3
Bombay . . . . .	89	7	29	3	..	151	63	1	..	..	10	107
Sind . . . . .	7	..	..	..	..	37	26	4	..	..	..	113
Madras† . . . . .	30	..	..	..	43	406	206	36	..	..	10	1152
Coorg‡ . . . . .	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	1	..	..	..	9	96†	42	2	..	..	..	..
Ajmer-Merwara . . . . .	1	1	..	..	..	11	8	..	..	..	..	97
Total	190	12	109	4	4	1,227	898	80	59	45	..	1,574

§ Mainly for rural areas only; work for urban areas also.

† Figures exclude Reserve Health Officers and the Provincial Staff at Headquarters.

‡ Superintendent of vaccination.

\*Not available.

†Includes Rural Health Inspectors also.

‡Please see remarks under rural areas.

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## **SECTION V**

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TABLE 21.—VACCINATION STATISTICS RELATING TO BRITISH INDIA DURING THE YEAR 1945.

Operations performed.				Percentage of success.		Children successfully vaccinated.		Successfully vaccinated Children under one year of age as a percentage of live births 1922
Re-vaccinations		Total.	Primary	Re-vaccinations		Under 1 year	1-6 years.	
Primary	Re-vaccinations							
North-West Frontier Province	161,907	199,550	361,457	99	84	71,947	51,943	70
Punjab	1,066,981	3,611,696	4,678,677	99	63	772,053	157,991	72
Delhi	37,642	286,783	324,425	99	55	29,345	1,730	54
United Provinces	1,381,468	1,119,686	2,500,554	98	71	846,218	400,181	32
Bihar	844,352	2,562,936	3,407,288	95	24	286,477	487,612	18
Orissa	246,874	1,188,155	1,435,029	95	54	38,050	110,379	48
Bengal								57
Central Provinces	502,076	924,409	1,426,485	69	90	326,975	104,498	24
Bombay	634,582	655,645	1,290,227	99	36	426,298	116,789	32
Sind	25,600	32,312	57,912	96	64	15,318	7,122	30
Madras	1,579,394	10,391,876	11,971,270	85	14	488,573	437,904	49
Coorg	5,423	11,672	17,095	84	66	932	2,837	74
Assam	430,734	964,307	1,395,041	95	64	82,550	231,620	
Ajmer-Merwara	16,261	5,925	22,186	97	92	13,445	1,865	
British India	6,933,294	21,954,352	28,887,646	82	36	3,398,181	21,124,471	

\*Not available.

**TABLE 32.—NUMBER OF TOWNS AND RURAL CIRCLES IN THE DIFFERENT PROVINCES IN WHICH COMPULSORY PRIMARY VACCINATION WAS IN FORCE DURING THE YEAR 1945.**

	Towns.			Rural circles.		
	Total Number.	Number in which Vaccination Act was in force.	Number to which the Act had not been extended.	Total Number.	Number in which vaccination Act was in force	Number to which the Act had not been extended.
North-West Frontier Province .	19	11	8	6	..	6
Punjab . . . . .	264	244	20	29	29	..
Sindh . . . . .	9	8	1	5	5	..
United Provinces . . . . .	443	264	179	759	..	759
Uttar Pradesh . . . . .	88	88	..	16	16	..
Madhya Pradesh . . . . .	17	15	2	9	5	4
Bihar . . . . .	120	120	..	592	592	..
Central Provinces . . . . .	119	105	14	405	278	127
Gujarat . . . . .	180	110	70	20	..	20
Rajasthan . . . . .	26	26	..	61	23	38
Andhra Pradesh . . . . .	389	389	..	25	25	..
Goa . . . . .	5	5	..	2	..	..
Karnataka . . . . .	31	27	4	143	†	143
Coorg . . . . .	5	5	..	10	..	10

†In 12 villages and one Development Board only.

**TABLE 33.—NUMBER OF TOWNS AND RURAL CIRCLES IN THE DIFFERENT PROVINCES IN WHICH COMPULSORY REVACCINATION WAS IN FORCE DURING THE YEAR 1904**

	Towns.			Rural Circles.		
	Total Number	Number in which revaccination was in force.	Number in which it was not in force.	Total Number.	Number in which revaccination was in force.	Number in which it was not in force.
North-West Frontier Province .	19	..	19	6	..	6
Punjab . . . . .	264	..	264	29	..	29
Delhi . . . . .	9	..	9	5	..	5
United Provinces . . . . .	443	..	443	759	..	759
Bihar . . . . .	88	..	88	16	..	16
Oriassa . . . . .	17	8	9	9	2	7
Bengal . . . . .	120	1	119	592	580	12
Central Provinces . . . . .	119	..	119	405	..	405
Bombay . . . . .	180	..	180	20	..	20
Sind . . . . .	26	26	..	61	23	38
Madras . . . . .	389	389	..	25	25	..
Coorg . . . . .	5	..	5	2	..	2
Assam . . . . .	31	..	1	143	..	143
Ajmer-Merwara . . . . .	5	..	5	10	..	10

State.	Population (1941 Census)	Total number of vaccinations performed		Percentage of successful vaccinations to total vaccinations performed.		Children successfully vaccinated.	
		Total		Under 1		1-6 years.	
		Primary	Re-vaccinations	Primary	Re-vaccinations	Year.	
Hyderabad	16,338,534	492,424	171,253	96	47	140,172	191,809
Mysore	7,170,714	147,939	150,653	95	33	47,691	84,449
RAJPUTANA STATES.							
Jaipur	3,040,876	93,765	36,583	94	64	60,391	7,173
Jodhpur	2,555,904	70,016	150,212	94	13	40,201	8,757
Mewar	1,929,128	43,653	1,392	100	100	25,331	16,064
Bikaner	1,292,938	35,212	16,285	71	38	26,416	7,651
Alwar	823,035	20,734	538	92	37	12,181	1,463
Kotah	777,398	18,477	..	99	..	17,797	582
Bharatpur	575,625	15,779	1,574	96	71	9,364	4,166
Dholpur	286,901	8,508	218	91	25	6,626	2,263
Dungarpur	274,282	4,946	..	95	..	884	3,467
Idar	307,798	10,148	840	99	96	6,865	3,136
Banswara	258,145	4,085	3	99	..	1,260	2,788
Bundi	240,574	5,710	..	97	..	3,831	1,490
Tonk	357,933	6,951	279	90	94	5,580	701
PUNJAB STATES.							
Nabha	340,044	14,842	12,856	90	83	5,136	3,529
Bahawalpur	1,341,209	57,589	23,292	98	92	31,705	20,034
Patiala	1,936,259	72,312	83,569	98	73	43,411	11,780
Kapurthala	373,350	23,380	29,315	87	38	12,101	4,806
Jind	361,812	15,052	26,186	99	82	9,358	2,839
Faridkot	199,283	6,529	10,145	99	91	5,396	961
UNITED PROVINCES STATES.							
Tehri (Garhwal)	537,189	14,172	1,019	95	62	3,915	5,906
Benares	450,626	5,539	3,891	96	99	*	3,733
Rampur	477,042	25,590	21,564	93	47	13,444	5,605

\*Not available.

TABLE 34.—VACCINATION STATISTICS RELATING TO SOME INDIAN STATES DURING THE YEAR 1945—*contd.*

State.	Population (1941 Census)	Total number of vaccinations performed.			Percentage of successful vaccinations to total vaccinations performed.			(Children successfully vaccinated.	
		Primary	Revaccinations	Total	Primary	Revaccinations	Under 1 year.	1-6 years.	
CENTRAL INDIA AGENCY									
Rewa	1,820,306	48,313	83	48,396	98	68	32,838	13,448	
Samthar	38,279	1,322	1	1,323	94	100	1,247	59	
Charkhrai	123,594	2,099	588	2,687	87	14	1,359	423	
Ajaigarh	96,596	2,240	..	2,240	87	..	1,431	284	
Bijawar	120,990	3,024	322	3,346	91	75	1,554	1,457	
Baoni	25,256	281	85	366	9	..	171	11	
Datis	174,072	4,366	163	4,529	96	84	3,993	157	
Chhatarpur	184,720	4,128	181	4,309	93	65	2,950	555	
Nagod	83,422	778	36	812	94	100	553	70	
Maihar	79,558	1,239	5,972	7,221	95	99	857	382	
Panna	231,170	4,499	..	4,499	92	..	3,288	540	
Bhopal	785,322	50,503	511	51,014	99	98	40,403	10,100	
Dewas Senior	89,479	1,814	16	1,830	94	100	994	720	
Dewas Junior	83,669	1,847	29	1,876	100	100	824	1,018	
Rajgarh	148,609	3,806	1,319	4,925	95	100	2,206	1,220	
Narsingarh	125,178	4,435	1,242	5,677	35	31	2,400	1,807	
Khilchipur	48,642	1,203	256	1,459	100	100	813	390	
Makrai	14,700	582	..	582	86	..	544	38	
Dhar	253,210	5,079	88	5,167	98	2	4,522	577	

Ratlam	.	.	.	.	.	126,117	1,705	129	1,834	*	*	98
Sitama	.	.	.	.	.	33,461	310	169	479	97	185	150
Sailana	.	.	.	.	.	40,228	350	..	360	90	200	
Jashua	.	.	.	.	.	178,327	5,036	..	5,036	79	2,139	1,876
Barwani	.	.	.	.	.	176,686	5,534	..	5,534	97	4,413	967
Alirajpur	.	.	.	.	.	112,754	1,874	43	1,917	94	118	1,213
KOLHAPUR & DECCAN STATES.												
Kolhapur	.	.	.	.	.	1,092,046	34,466	12,362	46,808	100	24,967	3,082
Abalkot	.	.	.	.	.	103,903	2,590	228	2,818	100	1,999	823
Aundh	.	.	.	.	.	88,762	3,490	107	2,697	100	1,480	758
Bhor	.	.	.	.	.	155,961	4,266	916	6,182	100	3,056	1,188
Kurundwad (Senior)	.	.	.	.	.	52,552	1,182	710	1,892	99	1,007	175
Kurundwad (Junior)	.	.	.	.	.	46,609	1,755	387	2,142	99	1,421	325
Janjira	.	.	.	.	.	103,557	2,942	688	3,610	99	1,579	1,194
Jamkhandi	.	.	.	.	.	126,272	3,384	1,102	4,486	100	2,597	753
Jath	.	.	.	.	.	107,036	3,116	1,168	4,284	100	2,052	1,063
Miraj (Junior)	.	.	.	.	.	40,684	1,355	434	1,789	97	1,147	208
Miraj (Senior)	.	.	.	.	.	108,621	2,694	2,881	5,575	98	1,838	856
Mudhol	.	.	.	.	.	72,447	1,531	1,134	2,665	96	1,215	260
Randurg	.	.	.	.	.	40,114	1,104	790	1,894	99	743	175
Phatkan	.	.	.	.	.	71,473	1,436	3,025	4,461	73	736	331
Sangli	.	.	.	.	.	328,722	8,530	5,273	13,803	95	6,521	2,769
Savanur	.	.	.	.	.	22,500	654	672	1,326	100	520	134
Sawantwadi	.	.	.	.	.	252,200	5,395	2,075	7,470	100	3,590	1,716
EASTERN STATES.												
Bastar	.	.	.	.	.	635,818	17,383	18,327	35,710	98	3,689	10,649
Jashpur	.	.	.	.	.	223,632	6,785	48,515	55,300	72	2,985	1,983
Kalahandi	.	.	.	.	.	599,751	23,554	20,916	44,470	96	1,125	2,969
Kanker	.	.	.	.	.	149,471	4,579	16,004	20,583	99	3,372	1,145
Khatnagar	.	.	.	.	.	173,829	5,252	5,829	11,121	93	5,078	1,562

\*Not available.



TABLE 34.—VACCINATION STATISTICS RELATING TO SOME INDIAN STATES DURING THE YEAR 1945—*contd.*

State	Population (1941 Census)	Total number of vaccinations performed		Percentage of successful vaccinations to total vaccinations performed		Children successfully vaccinated	
		Primary	Re-vaccinations	Total	Primary	Re-vaccinations	Under 1 year. 1-6 years.
Bombay	92,537	2,040	15,446	17,486	93	92	934
Bairakhol	38,185	1,749	3,701	5,450	95	90	1,481
Korea	126,874	1,645	1,003	2,648	95	80	•
Nandgaon	202,916	4,648	3,567	8,215	99	67	782
Patna	832,220	21,504	69,345	90,849	98	94	18,982
Raigarh	812,551	7,213	3,096	10,309	90	77	2,351
Hindol	58,505	2,138	6,628	8,766	95	54	1,737
Surguja	551,307	7,988	4,290	12,276	62	43	3,726
Mayurbhanj	980,977	27,039	43,798	70,837	90	91	3,828
Bamra	178,277	4,269	30,098	34,367	100	87	591
Baudh	146,175	3,742	14,548	18,290	80	64	55
Dhenkanal	324,212	9,224	29,938	39,162	95	80	3,176
Gangpur	399,297	9,436	21,525	30,961	87	86	5,174
Nayagarh	161,409	5,614	11,870	17,484	81	63	1,282
Keonjhar	529,736	18,894	30,648	49,542	90	89	620
Seraikela	156,374	6,132	5,907	12,039	99	54	1,111
Sonepur	243,878	7,471	21,704	29,175	99	48	5,030
Talchar	86,432	6,945	7,079	14,024	90	38	945
Tripura	513,010	12,914	16,624	29,538	85	59	2,259
Narsinghpur	48,448	1,763	7,701	9,464	88	77	87
MADRAS STATES.							
Travancore	6,070,018	328,749	1,311,705	1,638,454	93	49	38,571
Cochin	1,422,875	57,397	135,233	192,630	87	17	3,637
Pudukkottai	438,348	16,089	32,777	48,866	88	70	4,533
							179,445
							84,084
							9,419

**BARODA & GUJARAT  
STATES AGREEMENT.**

Chota Udepur . . . . .	162,177	4,480	2,641	7,121	84	35	2,593	1,161
Baria . . . . .	191,696	849	140	989	92	15	575	204
Baroda . . . . .	3,401,446	112,031	91,697	203,728	96	36	•	1
Dharampur . . . . .	123,336	4,255	6,308	10,563	35	51	4,021	234
Cambej . . . . .	96,601	2,496	151	2,647	100	69	1,688	778
Jawhar . . . . .	65,126	1,941	67	2,008	69	45	1,139	507
Lunawada . . . . .	105,318	1,980	5,809	7,789	98	70	907	789
Bajpipla . . . . .	249,032	3,775	2,648	6,423	90	35	1,881	1,513
Sachin . . . . .	26,231	481	131	612	100	23	337	144
Balesinor . . . . .	61,035	7,444	542	7,936	98	18	5,988	1,304
Ransda . . . . .	54,764	1,236	34	1,270	100	57	571	490
Sent . . . . .	114,047	2,143	189	2,332	100	..	1,721	422

• Not available.



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## **SECTION VI**

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TABLE 35.—NUMBER OF TOWNS HAVING PROTECTED WATER SUPPLY DURING THE YEAR 1945.

	Towns having a population of over 50,000**			Towns having a population between 30,000—50,000**			Towns having a population below 30,000**			Total		
	Towns			Towns			Towns			Towns		
	No. of Towns	having a protected water supply	No. of Towns	having a protected water supply	No. of Towns	having a protected water supply	No. of Towns	having a protected water supply	Aggregate population	No. of Towns having a protected water supply	Population included in Col. (10)	
1	2	3	4	5	6	7	8	9	10	11		
<b>North-West Frontier Province</b>	2	2	3	2	14	4	19	534,982	8	3,55,015		
Punjab . . . . .	13	8	16	8	175	27	204	4,302,283	43	2,207,337		
Delhi . . . . .	2	2	..	..	4	3	6	675,812	5	659,867		
United Provinces . . . . .	23	13	13	4	407	7	443	6,849,620	24	227,630		
Bihar . . . . .	11	7	4	1	73	3	88	1,966,219	11	894,358		
Orissa . . . . .	1	..	2	2	14	..	17	320,801	2	84,591		
Bengal . . . . .	19	12	18	13	113	29	150	5,958,490	53	4,085,421		
Central Provinces . . . . .	7	6	4	2	108	11	119	2,083,767	19	971,842		
Bombay . . . . .	13	6	14	6	105	9	132	4,936,615	21	3,026,482		
Sind . . . . .	4	3	..	..	23	2	27	864,920	5	589,788		
Madras . . . . .	27	23	19	9	278	28	342	7,211,149	60	3,478,696		
Coorg . . . . .	..	..	..	..	..	..	..	..	..	..		
Assam . . . . .	..	..	1	1	31	9	33*	310,439†	10	162,420		
Ajmer-Merwara . . . . .	1	..	1	..	3	1‡	5	214,088	1‡	17,804		
British India . . . . .	23	82	95	47	1,348	133	1,666	36,229,195	272	18,810,153		

\*Including five hill Towns of Shillong Jowai, Kohima, Tura, and Sadia and excluding Imphal.

†Excluding the population of Jowai which is not available.

‡Nasirabad a military cantonment.

\*\*Population figures in this statement relate to 1941 Census.

TABLE 36.—EXPENDITURE ON PUBLIC HEALTH BY MUNICIPALITIES DURING THE YEAR 1944-45.

	Income	Public Health Expenditure	Percentage of total income expended on Public Health	Expenditure on			Percentage of the total of Cols. 4, 5 & 6 to Column 2
				Conservancy	Water supply	Drainage	
	1	2	3	4	5	6	7
	Ra.	Ra.		Ra.	Ra.	Ra.	
North-West Frontier Province	3,979,673	654,028	16.4	360,287	111,444	72,085	83.2
Punjab	14,928,979	4,223,106	28.2	1,953,174	579,113	669,575	75.8
Delhi	17,303,278	4,685,620	27.1	2,088,310	1,360,313	602,657	86.5
United Provinces	40,481,379	11,858,826	29.3	5,447,947	4,608,450	863,116	92.8
Bihar	7,788,676	2,943,738	37.8	1,817,683	604,165	301,489	92.5
Orissa	1,217,423	434,009	35.6	296,162	66,420	18,456	87.8
Bengal							
Central Provinces	18,063,953	3,416,847	19.0	1,287,510	1,238,346	336,953	83.2
Bombay	53,442,002	11,183,838	20.9	4,749,158	2,808,496	898,241	75.6
Sind	16,459,917	8,112,330	49.3	1,345,114	1,878,429	1,165,683	54.1
Madras	38,894,696	12,204,123	31.4	5,208,075	3,427,409	1,443,840	82.6
Assam	2,275,908	779,436	28.2	500,386	193,008	35,567	93.5
Total	214,775,389	60,497,901	28.2	25,031,766	16,875,593	6,495,661	80.0

Not available.

TABLE 37.—EXPENDITURE ON PUBLIC HEALTH BY DISTRICT BOARD: DURING THE YEAR 1944-45.

	1	2	3	Expenditure included in Column 2 on			Percentage of total income expended on Public Health	Expenditure included in Column 2 on			Percentage of the total of cols. 4, 5 & 6 to Col. 2.
				Income	Public Health Expenditure	Percentage of total income expended on Public Health		Conservancy	Water Supply	Drainage	
	Ra.	Ra.						4	5	6	7
North-West Frontier Province	2,682,345	77,804	2.9					15,834	4,713	539	27.1
Punjab	44,894 490	1,493,023	3.3					97,648	237,246	9,469	23.0
Delhi	503,500	88,949	17.7					--	--	--	--
United Provinces	30,740,949	903,795	3.0					9,021	6,713	828	1.8
Bihar	23,433,530	920,259	3.9						177,959	3,610	
Orissa	2,639,378	184,186	6.9					32,909	4,942	3,433	22.4
Bengal											
Central Provinces	49,424,168	828,882	1.7						53,925	--	
Bombay	34,500,306	1,094,708	3.2						298,048		
Sind	7,850,754	1,232,751	15.7					33,648	38,822	--	5.9
Madras	62,637,805	4,060,369	6.5					1,907,553	--	--	46.9
Assam	5,533,657	153,012	27.7					--	57,163	1,521	31.8
<b>TOTAL</b>	264,940,882	11,045,238	4.2					2,096,611	879,531	19,400	27.2

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## SECTION VII

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TABLE 38.—SICKNESS AND MORTALITY OF ALL CLASSES OF

	Average daily popula- tion	Con- stantly sick	Influenza				Cholera				Small	
			Actuals		Ratios		Actuals		Ratios		Actuals	
			A	D	A	D	A	D	A	D	A	D
North-West Frontier Province—												
1945 . .	4,193	27	33	..	7.9	..	..	..	..	..	1	..
1944 . .	5,231	27	13	..	3.4	..	..	..	..	..	1	..
Average*	5,587	25	33	..	6.8	..	..	..	..	..	1	..
Punjab—												
1945 . .	18,970	26	79	1	4.1	0.05	..	..	..	..	2	..
1944 . .	19,372	25	116	1	6	0.05	2	1	0.1	0.05	2	1
Average*	20,106	25	129	..	6.4	..	..	..	..	..	2	..
United Provinces—												
1945 . .	30,429	24	321	..	11	..	22	6	0.7	0.2	16	2
1944 . .	33,892	23	636	..	19	..	35	6	1.0	0.2	50	..
Average*	36,150	20	727	2	20.1	0.06	29	7	0.8	0.2	23	2
Bihar—												
1945 . .	16,688	37	105	..	6.3	..	..	..	..	..	24	2
1944 . .	20,866	38	73	..	3.7	..	1	..	0.05	..	14	2
Average*	16,823	27	229	..	13.6	..	2	..	0.1	..	8	1
Orissa—												
1945 . .	2,308	36	29	..	13	..	..	..	..	..	..	..
1944 . .	2,321	34	78	..	34	..	..	..	..	..	10	1
Average*	1,720	24	59	..	34.3	..	1	1	0.6	0.6	4	1
Bengal—												
1945 . .	19,022	41	1,205	1	63	0.05	5	2	0.3	0.1	25	3
1944 . .	20,889	47	1,239	2	59	0.09	10	1	0.5	0.05	111	39
Average*	19,710	41	1,770	5	89.8	0.3	5	1	0.3	0.06	36	12
Central Provinces—												
1945 . .	5,267	20	51	..	9.7	..	2	..	0.4	..	5	1
1944 . .	6,523	25	91	..	14	..	..	..	..	..	5	..
Average*	6,137	19	84	1	13.6	0.2	..	..	..	..	2	..
Bombay—												
1945 . .	11,628	15	72	..	6.2	..	..	..	..	..	3	..
1944 . .	13,796	16	51	..	3.7	..	..	..	..	..	10	3
Average*	11,940	16	59	..	4.9	..	..	..	..	..	5	1
Sind—												
1945 . .	9,424	28	75	..	7.9	..	..	..	..	..	5	..
1944 . .	8,556	24	41	1	4.8	..	..	..	..	..	..	..
Average*	6,619	21	35	..	6.3	..	1	..	0.2	..	..	..
Madras—												
1945 . .	19,076	10	237	2	12.4	0.1	..	..	..	..	15	..
1944 . .	21,012	12	98	1	4.7	0.05	..	..	..	..	7	3
Average*	17,496	13	216	2	12.3	0.1	3	2	0.2	0.1	3	1
Assam—												
1945 . .	3,740	22	60	..	16	..	1	..	0.3	..	1	..
1944 . .	3,998	30	44	1	11	0.3	2	2	0.5	0.5	7	1
Average*	3,572	23	52	1	14.6	0.2	..	..	..	..	3	..
British India—												
1945 . .	121,723	25	1,062	3	8.7	0.02	25	6	0.2	0.05	70	5
1944 . .	156,456	27	2,431	6	16	0.04	50	10	0.3	0.06	217	50
Average*	145,861	24	3,379	11	23.1	0.08	44	12	0.3	0.08	87	17

\*Average relates to the period 1940—44.

\*\*Not available.

## PRISONERS IN DISTRICT AND CENTRAL JAILS IN INDIA.

Sex		Enteric Fever				Malaria.				Pyrexia of uncertain Origin.			
Ratios		Actuals		Ratios		Actuals		Ratios		Actuals		Ratios	
A	D	A	D	A	D	A	D	A	D	A	D	A	D
0.2	..	12	1	2.9	0.2	871	3	208	0.6	156	..	37.1	..
0.2	..	16	1	3.1	0.2	1,705	3	326	0.6	7	..	1.3	..
0.2	..	22	2	3.9	0.3	1,994	4	357	0.7	14	..	2.7	..
..	..	60	7	3.2	0.4	7,356	16	388	0.8	122	4	6.4	0.2
0.1	0.05	63	8	3.3	0.4	10,017	27	514	1.4	313	5	16	0.3
0.09	..	111	10	5.5	0.5	8,199	20	408	1.0	283	3	14.1	0.2
0.5	0.06	57	7	1.9	0.2	6,496	12	214	0.4	728	8	24	0.2
1.5	..	56	6	1.6	0.2	8,157	16	240	0.5	834	6	25	0.2
0.6	0.06	91	9	2.5	0.3	8,001	15	221	0.4	1,218	3	38.4	0.1
1.4	0.1	42	1	2.5	0.06	1,285	7	77	0.4	15	..	0.9	..
0.7	0.09	36	3	1.7	0.1	1,977	10	95	0.5	42	1	2.0	0.5
0.5	0.06	49	6	2.9	0.4	1,359	11	81	0.7	57	..	3.4	..
..	..	3	..	1.3	..	348	3	151	1.3	19	1	8.2	0.4
4.3	0.4	1	..	0.4	..	595	6	256	2.6	48	..	2.1	..
2.3	0.6	2	..	1.2	..	274	2	160	1.2	14	..	8.1	..
1.5	0.2	26	5	1.4	0.3	7,124	45	375	2.4	146	2	8	0.1
5.3	1.9	22	5	1.1	0.2	9,306	74	446	3.5	62	1	3	0.05
1.8	0.6	1	4	1.1	0.2	6,872	35	349	1.8	147	1	7.4	0.05
0.9	0.2	12	..	2.3	..	909	4	173	0.8	41	..	8	..
0.8	..	12	..	1.8	..	1,186	2	182	0.3	58	..	9	..
0.4	..	13	1	2.1	0.2	982	3	160	0.5	67	1	10.9	0.2
0.3	..	3	..	0.3	..	2,732	2	235	0.2	12	..	1.0	..
0.7	..	14	4	1.0	0.3	5,187	5	376	0.4	31	..	1.1	..
0.3	0.06	16	1	1.3	0.08	3,101	4	259	0.3	16	..	1.3	..
0.5	..	35	7	3.5	0.7	3,006	27	319	2.9	6	..	0.6	..
..	..	29	10	3.4	1.2	3,426	21	400	2.5	11	..	1.2	..
..	..	19	4	2.9	0.6	2,294	11	347	1.6	4	..	0.6	..
0.8	..	9	1	0.5	0.05	374	6	20	0.3	133	1	7	0.05
0.3	0.1	3	..	0.1	..	395	4	19	0.2	113	2	5	0.09
0.2	0.1	6	2	0.3	0.1	271	4	15	0.2	96	1	5.5	0.06
0.3	..	7	2	1.9	0.5	446	8	119	2.1	45	3	12	0.8
1.8	0.3	25	2	3.8	0.5	486	11	122	2.8	58	1	15	0.3
0.8	..	11	1	3.1	0.3	328	6	92	1.7	21	..	5.9	..
4													
0.5	0.03	240	26	2.0	0.2	23,823	88	196	0.7	1,277	14	10.5	0.09
1.4	0.3	277	39	1.8	0.3	42,437	179	271	1.0	1,577	16	10	0.1
0.6	0.1	361	40	2.5	0.3	33,676	113	221	0.8	1,033	8	13.8	0.03

TABLE 38.—SICKNESS AND MORTALITY OF ALL CLASSES OF PRISONERS

	Average daily population	Con-stantly sick	Tubercle of the lungs				Pneumonia				Other Respiratory			
			Actuals		Ratios		Actuals		Ratios		Actuals			
			A	D	A	D	A	D	A	D	A	D		
North-West Frontier Province—														
1945 . .	4,193	27	43	16	10	3·8	89	9	21	2	185	..		
1944 . .	5,231	27	67	13	13	2·5	87	10	17	2	189	3		
Average*	5,587	25	63	13	11	2·3	115	8	21	1·4	286	3		
Punjab—														
1945 . .	18,970	26	138	22	7·3	1·2	132	15	7	0·8	362	5		
1944 . .	19,372	25	126	21	7·0	1·2	130	10	7	0·5	436	10		
Average*	20,106	25	144	31	7·2	1·5	215	20	11	1·0	634	6		
United Provinces—														
1945 . .	30,429	24	177	37	5·8	1·2	346	49	11·4	1·6	1,003	23		
1944 . .	33,892	23	225	39	6·6	1·2	358	38	11·0	1·1	1,273	17		
Average*	36,150	20	191	48	5·6	1·3	389	67	11	1·8	1,370	25		
Bihar—														
1945 . .	16,688	37	122	60	7·0	3·6	134	15	8·0	0·9	138	9		
1944 . .	20,866	38	226	112	9·0	5·3	177	29	8·0	1·4	660	14		
Average*	16,823	27	147	64	8·7	3·8	203	29	5·6	1·7	534	8		
Orissa—														
1945 . .	2,308	36	4	2	1·7	0·8	29	1	13	0·4	49	5		
1944 . .	2,321	34	7	6	3·0	2·6	45	2	19	0·9	82	2		
Average*	1,720	24	6	3	3·4	1·7	18	1	9	0·6	29	1		
Bengal—														
1945 . .	19,022	41	157	30	8·0	1·6	233	18	12	0·9	850	16		
1944 . .	20,889	47	146	48	7·0	2·3	398	55	19	2·6	802	22		
Average*	19,710	41	145	40	7·4	2·0	293	39	15	2·0	692	13		
Central Provinces—														
1945 . .	5,267	20	25	7	5·0	1·3	41	..	7·8	..	140	2		
1944 . .	6,523	25	43	16	7·0	2·5	100	8	15·3	1·2	192	5		
Average*	6,137	19	30	9	4·8	1·5	78	12	12·7	1·9	139	8		
Bombay—														
1945 . .	11,628	15	46	12	4·0	1·0	95	10	8·2	0·9	260	2		
1944 . .	13,796	16	85	19	6·1	1·4	75	6	5·4	0·4	267	3		
Average*	11,940	16	61	17	5·1	1·3	73	11	6·1	0·9	257	3		
Sind—														
1945 . .	9,424	28	21	11	2·2	1·1	205	27	22	2·9	274	6		
1944 . .	8,556	24	17	14	2·0	1·6	170	32	20	3·7	247	7		
Average*	6,619	21	10	5	1·5	0·7	256	42	38	6·0	196	4		
Madras—														
1945 . .	19,076	10	126	42	7·0	2·2	84	11	4	0·6	166	11		
1944 . .	21,012	12	80	44	4·6	2·1	65	10	3	0·5	178	15		
Average*	17,496	13	109	30	6·2	1·7	80	20	4·6	1·1	177	11		
Assam—														
1945 . .	3,740				0·8	..	68	7	18	1·8	85	2		
1944 . .	3,998	30	10	7	3·0	1·8	52	7	13	1·8	71	5		
Average*	3,572	23	20	8	5·5	2·2	47	8	13	2·2	117	3		
British India—														
1945 . .	121,723	25	705	209	5·8	1·7	1,223	144	10	1·2	2,662	58		
1944 . .	156,456	27	1,038	341	6·6	2·2	1,657	207	11	1·3	4,367	105		
Average*	145,861	24	921	270	6·3	1·9	1,767	263	12	1·8	4,409	81		

\*Average relates to the period 1940—44.

IN DISTRICT AND CENTRAL JAILS IN INDIA—*contd.*

Ratios		Dysentery				Diarrhoea.				Anaemia and Debility				All Causes			
Ratios		Actuals		Ratios		Actuals		Ratios		Actuals		Ratios		Actuals		Ratios	
A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D
44	..	55	..	13	..	39	..	9.3	..	29	1	7	0.2	2,464	41	588	9.7
36	0.6	34	..	6.5	..	51	..	10	0.2	56	..	11	0.2	3,164	41	604	7.8
51	0.5	56	1	10.0	0.2	38	..	6.8	..	29	1	5.2	0.2	3,804	47	681	8.4
19	0.3	123	5	6.5	0.3	301	12	16	0.6	223	4	11.8	0.2	11,621	120	613	6.3
22	0.5	52	..	3	..	233	5	12	0.3	186	7	10	0.4	17,030	155	879	8.0
32	0.3	124	4	6.2	0.2	200	7	10	0.3	175	6	9	0.3	16,398	180	816	9.0
33	0.8	630	8	21	0.3	773	11	25	0.4	526	13	17	0.4	18,151	284	597	9.3
38	0.5	662	13	20	0.4	723	21	21.3	0.6	484	15	14	0.4	21,165	285	624	8.4
38	0.7	836	16	23	0.4	600	20	16.5	0.6	369	12	10	0.3	21,412	346	592	9.6
15	0.1	799	28	48	1.7	250	2	15	0.1	110	..	6.6	0.06	6,201	186	372	11.1
32	0.7	1,576	56	76	2.7	275	3	13	0.1	128	5	6.1	0.2	8,587	356	411	17.0
32	0.5	1,961	58	63.1	3.4	237	1	14.1	0.1	73	3	4.3	0.2	6,439	280	383	16.6
21	2.2	96	1	42	0.4	73	1	32	0.4	35	..	15	..	1,171	31	507	13.4
22	0.9	177	4	76	1.7	121	2	52	0.9	25	..	11	..	1,736	27	748	11.6
17	0.6	80	3	47	1.7	62	..	36	..	12	..	7	..	929	20	540	11.6
45	0.5	1,246	20	66	1.0	949	4	50	0.2	624	30	33	1.6	21,940	258	1153	13.6
38	1.1	1,497	35	72	1.7	776	13	37	0.6	740	79	35	3.8	24,185	512	1158	24.5
35	0.7	1,649	39	84	1.9	691	7	35	0.4	566	33	29	1.7	21,105	329	1071	16.6
27	0.4	275	1	52	0.2	113	1	21	0.2	91	14	17	2.7	2,928	57	555	10.8
29	0.8	463	4	71	0.6	136	4	21	0.6	114	13	18	2.0	3,995	91	612	14.0
22	1.3	448	6	50	1.0	132	3	22	0.5	68	8	11.1	1.3	3,183	83	519	13.4
22	0.2	308	3	26	0.3	284	2	24	0.2	108	3	9.3	0.3	5,720	72	492	6.2
19	0.2	262	2	18	0.1	399	4	29	0.3	183	8	13.3	0.6	8,453	90	612	6.5
22	0.2	284	2	24	0.2	365	2	31	0.2	139	3	11.6	0.3	6,084	86	510	7.2
29.1	0.6	892	8	95	0.8	200	14	21	1.5	102	14	11	1.5	7,006	139	743	14.7
29	0.6	855	15	100	1.6	212	22	25	2.6	127	15	15	1.8	6,840	195	799	22.8
30	0.6	539	10	81	1.5	153	21	23	3.1	82	7	12.4	1.1	4,921	145	743	21.9
9	0.6	196	18	10	0.9	73	5	3.8	0.3	112	7	5.9	0.4	3,177	239	167	12.5
9	0.9	157	9	8	0.4	56	5	2.7	0.2	178	14	8.5	0.6	3,457	294	165	16.0
10	0.5	164	7	9.4	0.4	57	6	3.3	0.3	106	7	6.0	0.4	3,125	207	178	11.8
23	0.5	410	12	110	3.2	45	3	12	0.8	45	4	12	1.7	1,573	68	421	18
18	1.3	588	46	147	11.5	37	3	9	0.8	76	19	19	4.8	1,890	134	473	34
33	0.9	332	20	93	5.6	25	1	7	0.3	39	6	11	1.7	1,318	81	369	23
22	0.5	3,784	84	31	0.7	2,151	51	18	0.4	1,381	61	11.3	0.5	81,952	1,438	673	11.8
28	0.7	6,323	184	40	1.2	3,019	82	19	0.5	2,297	175	14.7	1.1	100,502	2,180	642	14.0
30	0.6	5,574	65	38	1.1	2,559	69	18	0.5	1,659	86	11.3	0.6	88,919	1,802	610	12.4



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## **SECTION VIII**

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**LIST OF SCIENTIFIC PAPERS PUBLISHED IN THE INDIAN JOURNAL OF MEDICAL RESEARCH, THE INDIAN MEDICAL GAZETTE AND THE JOURNAL OF THE MALARIA INSTITUTE OF INDIA DURING THE YEARS 1940-45\***

**A. PAPERS PUBLISHED IN THE INDIAN JOURNAL OF MEDICAL RESEARCH.**

*Acharya, B. N., Niyogi, S.P., and Patwardhan, V. N.*

Balanced Diets. Part III. The Effect of Parching on the Biological Value of the Proteins of some Cereals and Pulses. (Vol. XXX, page 73).

*Adler, S., and Ber, M.*

The Transmission of *Leishmania tropica* by the Bite of *Phlebotomus papatasi* (with 1 Plate). (Vol. XXIX, page 803).

*Ahmad, B., and Mullick, D. N.*

A Diet Survey of some Families and Institutions in Calcutta. Part II. A Note on the Vitamin Content of the Diets. (Vol. XXVIII page 397).

*Ahmad Bashir, Dutt, T. R., and Narang, B. D.*

Studies on Calcium and Phosphorus Metabolism. Part I. Calcium, Phosphorus and Phytin Contents of the Diets of Kangra Valley and their Relation to Nutrition. (Vol. XXXIII, page 97).

*Ahmad Bashir, Sehra, K. B., and Swaroop, S.*

Studies on Calcium and Phosphorus Metabolism. Part. II. Blood-Serum Calcium Phosphorus and Phosphates of the Population of Kangra Valley. (Vol. XXXIII, page 105).

*Ahmad Bashir, Ram Chand and Mansoor-ul-Hassan*

Vitamin A Content of the Liver oils of Common Fresh-Water Fishes of the Punjab. (Vol. XXXIII, page 215).

*Ahuja, M. L., and Brooks, A. G.*

*In vitro* Test for Assay of Potency of Cobra Antivenene. (Vol. XXXII, page 227).

*Anantakrishnan, C. P., and Lahiry, N. L.*

Casein and Lactalbumin of Ass Milk. (Vol. XXX, page 433).

*Aykroyd, W. R., and Swaminathan, M.*

The Nicotinic-Acid Content of Cereals and Pellagra. (Vol. XXVII, page 667).

*Aykroyd, W. R., and Krishnan, B. G.*

Rice Diets and Beriberi. (Vol. XXIX, page 551).

Infantile Mortality in the Beriberi Area of the Madras Presidency (with 1 Chart in text). (Vol. XXIX, page 703).

*Bagchi, K. N., Ganguly, H. D., and Sirdar, J. N.*

Lead-Content of Human Hair. (Vol. XXVII, page 777).

Lead in Food. (Vol. XXVIII, page 441).

*Baksh, I., Kochhar, B. D., and Malik, A. Q.*

The Evaluation of the Intradermal Dye Test for Vitamin C in Health and Disease. (Vol. XXVII, page 695).

*Banerjee, R.*

Some Observations on Voges-Proskauer Test. (Vol. XXXII, page 15).

*Banerjee, R., and Sen, A. K.*

Study of the Eijkman Test and Modifications as given by Coliform Organisms isolated from Human Faeces. (Vol. XXVIII, page 315).

It is not claimed that the list is complete.



*Basu, K. P., and Sen Gupta, J. C.*

Vitamin-D Content of the Liver and Body Oils of Bengal Fish. (Vol. XXVII page 865).

*Basu, K. P., Rai Sircar, B. C., and Sen Gupta, J. C.*

Vitamin-A Content of some Species of Bengal Fish by Biological, Tintometric, and Spectroscopic Methods. (Vol. XXVII, page 721).

*Basu, K. P., and Malakar, M. C.*

Magnesium Metabolism in Man. (Vol. XXVIII, page 333).

*Basu, K. P., Basak, M. N., and De. H. N.*

Studies in Human Nutrition. Part III. Protein, Calcium and Phosphorus Metabolism with Typical Indian Diets. (Vol. XXIX, page 105).

Studies in Human Nutrition. Part IV. Availability of Calcium ingested in the Process of chewing Betel-Leaves with Lime. (Vol. XXX, page 309).

Studies in Human Nutrition. Part V. The Bones of Small Fish as a Source of Nutritionally Available Calcium and Phosphorus. (Vol. XXX, page 41).

*Basu, K. P., and Ghosh, D.*

Availability of Calcium in Lady's Finger (*Hibiscus esculentus*), Cabbage (*Brassica Oleracea Capitata*), Drumstick (*Moringa Oleifera*) and Amaranth Tenebrion (*Amaranthus gangeticus*). Part I. Availability of Calcium in Vegetables determined by Experiments on growing Rats. (Vol. XXXI, page 29).

Availability of Calcium in Lady's Finger (*Hibiscus esculentus*), Cabbage (*Brassica Oleracea Capitata*), Drumstick (*Moringa Oleifera*) and Amaranth Tenebrion (*Amaranthus gangeticus*). Part II. Availability of Calcium in Vegetables determined by Metabolism Experiments on a Human Adult. (Vol. XXXI, page 37).

*Basu, N. M., and Ray, G. K.*

The Course of Excretion of Ascorbic Acid in Urine after its Intake in Large Doses (Vol. XXVII, page 907).

Observations on the Average Urinary Output and the State of Saturation of Bengali Boys with Respect to Vitamin C. (Vol. XXVII, page 917).

The Optimum Requirements of Vitamin C of Persons living on a Bengali Diet (Vol. XXVIII, page 133).

The Effect of Vitamin C on the Incidence of Fatigue in Human Muscles. (Vol. XXVIII, page 419).

*Basu, N. M., and Biswas, P.*

The Influence of Ascorbic Acid on Contractions and the Incidence of Fatigue in different Types of Muscles. (Vol. XXVIII, page 405).

*Basu, N. M., and De, N. K.*

Assessment of Vitamin A Deficiency amongst Bengalees and Determination of the Minimal and Optimal Requirements of Vitamin A by a Simplified Method of Measuring Visual Adaptation in the Dark (with 5 Graphs in text). (Vol. XXI, page 591).

*Basu, P. N., and Sen, S. N.*

A Peptic Digest Broth for the Formation of *Clostridium tetani* Toxin. (Vol. XXI, page 689).

*Basir, M. A.*

The Effect of the Autonomic Nerves on the Backward Flow of the Perfusing Fluid in the Spleen of the Dog. (Vol. XXVIII, page 509).

*Bhatnagar, S. S.*

Bacteriological Studies on *Pasteurella pestis* and *Pasteurella pseudotuberculosis*. Part I. The Morphology, the Growth and the Dissociation of *Pasteurella pestis*. (Vol. XXVIII, page 1).

Bacteriological Studies on *Pasteurella pestis* and *Pasteurella pseudotuberculosis*. Part II. The Serology of *Pasteurella pestis* and *Pasteurella pseudotuberculosis*. (Vol. XXVIII, page 17).

*Bhave, P. D.*

Diet Surveys in the Central Provinces and Berar. (Vol. XXIX, page 99).

*Bhare, P. D., and Bopaiya, M. S.*

Diet Surveys and Investigations of Haemoglobin Levels in Coorg. (Vol. XXX, page 53).

*Bhatia, B. B., and Kapur, R. D.*

Pharmacological Action of Alkaloids of *R. serpentina* Benth. Part I. Neo-ajmaline and Iso-ajmaline (with 11 Graphs in text). (Vol. XXXII page, 177).

*Bose, A. N., Das Gupta, S. J., and Basu, U. P.*

Activity of 2-Sulphanil-amido-4-methylthiazole against Type 1 Pneumococcus Infections in Mice. A Preliminary Note. (Vol. XXIX, page 265).

*Bose, A. N., and Ghosh, J. K.*

Studies on Sulphanily-banzemide: Toxicity and Absorption. (Vol. XXXII page 61).

*Bose, B. C., and Ahuja, M. L.*

Detection of Pyrogens in Fluids by Biological Methods (with 2 Graphs in text). (Vol. XXXII, page 9).

*Bose, B. C., and Mukerji, B.*

On the Suitability of the Guinea-pig-Method of Digitalis Assay in India (with 2 Graphs in text). (Vol. XXX, page 611).

Use of Trichlorethylene as an Anaesthetic Agent: An Experimental Study on Laboratory Animals (with 1 Plate). (Vol. XXXII, page 65).

Observations on the Physiologically Active Fraction of Indian Hemp, *Cannabis sativa* Linn. (Vol. XXXIII, page 265).

*Bose, B. C., Iyengar, N. K., and Mukerji, B.*

On the Assay of Urea Stibamine. (Vol. XXXIII, page 151).

*Bose, J. P., and De, U. N.*

A Study of the Effect of Temperature and Anticoagulant on Glycolysis in Normal Blood (with 6 Graphs in text). (Vol. XXX, page 111).

Glycolysis in Diabetic Blood and its Significance. (Vol. XXXIII, page 143).

*Bose, S. M., and Banerjee, B. N.*

Studies on the Destruction of Vitamin A in Shark-Liver Oil, Part V. Effect of some Anti-oxidants on the Stabilization of Vitamin A. (Vol. XXXIII, page 203).

*Brahmachari, P. N.*

Post Kala-azar Infection of the Skin by *Leishmania donovani* (with 1 Plate). (Vol. XXX, page 485).

Chatterjee, S. K., and Mitter, K. N.

Haemolytic *Streptococci* in the Throat of apparently healthy Persons : Its Incidence and Causal Relationship to Puerperal Infection. (Vol. XXIX, page 483).  
Significance of Haemolytic *Streptococci* in Parturient Women (with 1 Graph in text). Vol. XXIX, page 491).

Chitre, R. G., and Patwardhan, V. N.

Studies in Calcium and Phosphorus Metabolism. Part IV. The Absorption of Calcium from the Intestine. (Vol. XXVIII, page 361).

Chopra, R. N., Mazumdar, D. C., and Roy, A. C.

Some Observations on the Lipoid Content of the Blood in Epidemic Dropsy. (Vol. XXVII, page 937).

Chopra, R. N., Roy, A. C., and Biswas, H. K.

On the Composition of Sweat of the Indians. (Vol. XXVII, page 931).

Chopra, R. N., and Chopra, G. S.

Withdrawal Syndrome in Opium Addicts and the Rationale of Treatment with Lecithin and Glucose. (Vol. XXVII, page 225).

Chopra, R. N., Gupta, J. C., Chopra, G. S., and Ghosh, B. C.

A Note on the Chemistry and pharmacological Action of *Entada pursoetha* D. C. (*E. scandens* Benth.), ( Vol. XXVIII, page 469).

Chopra, R. N., Chatterjee, N. R., and Ghosh, S.

A Comparative Study of *Boerhaavia diffusa* Linn and the white and Red Flowered 'Varieties' of *Trianthema portulacastrum* Linn. (Vol. XXVIII, page 475).

Chopra, R. N., Chopra, G. S., and Roy, A. C.

Urinary Excretion of Morphine in Opium Addicts with and without Lecithin-Glucose Treatment. (Vol. XXIX, page 195).

Chopra, R. N., Ganguly, S. C., and Rao, S. Sundar.

Protein Fractions and other Physical Properties of Hydrocele Fluid. (Vol. XXIX, page 253).

Chopra, Ram Nath, and Chakravarti, M.

A Preliminary Note on the Pharmacological Action of the Alkaloids *Rauwolfia serpentina*. (Vol. XXIX, page 763).

Chopra, Ram Nath, Gupta, J. C., and Chopra, G. S.

Pharmacological Action of the Essential Oil of *Curcuma longa*. (Vol. XXIX, page 769).

Chopra, R. N., Gupta, J. C., Bose, B. C., and Chopra, I. C.

A Preliminary Note on the Pharmacological Action of the Glucoside from *Paris Polyphylla* Sm. (Vol. XXX, page 103).

A Preliminary Study of the Pharmacological Action of the Glucoside of *Cerbera odollam*. (Vol. XXX, page 107).

Alkaloids of *Rauwolfia serpentina* : A Comparative study of their Pharmacological Action and their Role in Experimental Hypertension (with 2 Plates). (Vol. XXX, page 319).

Hypnotic Effect of *Rauwolfia serpentina* : The Principle underlying this Action its Probable Nature. (Vol. XXXI, page 71)

*Chopra, R. N., Chopra, G. S., and Chopra, I. C.*

*Cannabis sativa* in Relation to Mental Diseases and Crime in India. (Vol. XXX, page 155).

*Chopra, I. C., Kohli, J. D., and Handa, K. L.*

*Asula reyleana* DC: Its Chemistry and Pharmacological Action. (Vol. XXXIII, page 139).

Chemistry and Pharmacology of some Common Indigenous Remedies. (Vol. XXXIII, page 157).

*Cochrane, R. G., Paulraj, M., and Salmond, M. D.*

The Effect of Wheat Diet in the Relief of certain Painful Complications and Sequel in Leprosy. (Vol. XXVII, page 963).

*Cohn, Roy.*

The Effect of Tracheal Stenosis on the Lung of the Rat (with 3 Figures in text). (Vol. XXX, page 173).

*Cooray, G. H.*

Observations on Malignant Disease in Ceylon based on a Study of 2,295 Biopsies of Malignant Tumours (with 2 Graphs in text). (Vol. XXXII, page 71).

*Datta, N. C.*

Metalllic Contamination of Foodstuffs. Part III. The Effect of continued Administration of Tin from Tinned Brass Vessels on Growth—the Excretion and Absorption of Tin in the Rat. (Vol. XXVIII, page 451).

Metalllic Contamination of Foodstuffs. Part IV. Investigations on Contamination of Foodstuffs with Copper from Brass and Bronze Vessels and the Metabolic Experiments on the Absorption and Excretion of Copper in Rats. (Vol. XXIX, page 751).

*David, J. C., Krishnaswami, R., and Srinivasan, M.*

Some Observations on the Inhibition of Adrenaline Oxidation. (Vol. XXVII, page 997).

*David, J. C., and Krishnaswami, R.*

Some Observations on the Action of Camphor, Ceraminc and Cardiazol on the Circulation and Respiration (with 2 Kymographs in Text). (Vol. XXX, page 99).

*Daver, M. B., and Ahmed, S. S.*

Diet Survey of Nizamabad district in H. E. H. the Nizam's Dominions. (Vol. XXX, page 581).

*Day, C. D., Marshalli, and Shourie, K. L.*

The Incidence of Periodontal Disease in the Punjab. (Vol. XXXII, page 47).

*De, S. S.*

Studies on Haemolysin of Cobra Venom. Part II. Effect of different Substances on the Activity of Cobra (*Naja Naja*) Haemolysin. (Vol. XXVII, page 793).

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*De, P.*

The Pharmacological Action on the Circulatory System of a Bitter Principle Isolated from *Securigera securidaca* (Linn). Dagen et Dorfler (*N. O. Leguminosae*) (with 9 Tracings in text). (Vol. XXXI, page 67).

*De, S. P., Datta, S. K., and Chatterjee, S. C.*

Bacteriostatic Effect of Human Bile after Oral Administration of Hexamine and

**Sulpharilamide as studied in a patient with Billiary Fistula.** (Vol. XXIX, page 271).

*Dharmendra.*

**The Viability of the *Meningococcus* in the Cool Room ( $3\frac{1}{2}^{\circ}\text{C}$  to  $8\frac{1}{2}^{\circ}\text{C}$ ).** (Vol. XXVIII, page 43).

**Complement-Fixation by Leprous Sera after Absorption by various Acid-fast Bacilli.** (Vol. XXIX, page 523).

**The Immunological Skin Tests in Leprosy. Part I. The Isolation of a Protein Antigen of *Mycobacterium leprae*.** (Vol. XXX, page 1).

**Immunological Skin Tests in Leprosy. Part IV. The Isolation of Three Different Protein Fractions from *Mycobacterium leprae*.** (Vol. XXXI, page 125).

**Immunological Skin Tests in Leprosy. Part V. A Bacillary Antigen Standardized by Weight.** (Vol. XXXI, page 129).

*Dharmendra, and Mukherji, N. N.*

**Action of Methylene Blue on *Mycobacterium leprae muris*.** (Vol. XXVII, page 627).

*Dharmendra and Bose, R.*

**Complement-Fixation in Leprosy with Antigens prepared from various Acid-Fast Bacilli.** (Vol. XXIX, page 7).

**Bactericidal Action *in vitro* of Sulphanilamide and Sulphapyridine on *Mycobacterium leprae muris*.** (Vol. XXXI, page 133).

*Dharmendra and Lowe, J.*

**The Immunological Skin Tests in Leprosy. Part II. The Isolated Protein Antigen in Relation to the Classical Mitsuda Reaction and the Early Reaction to Lepromin.** (Vol. XXX, page 9).

**The Immunological Skin Tests in Leprosy. Part III. The Isolated Protein Antigen in Relation to the Antigens used by other Workers.** (Vol. XXX, page 17).

**Attempts at Transmission of Human Leprosy to Syrian Hamsters.** (Vol. XXVIII, page 61).

*Dharmendra, and Mukherji, N.*

**Attempts to Transmit Human Leprosy to Splenectomized Monkeys.** (Vol. XXXII, page 197).

**The Effect of Sulphapyridine on Experimental Rat Leprosy.** (Vol. XXXII, page 201).

*Dhurandhar, C. B.*

**The Reliability of Guinea-pig Inoculation Test for the Diagnosis of Human Tubercular Affections (with one chart in Text).** (Vol. XXIX, page 531).

*Dhurandhar, C. B., and Boman-Behran, A. K.*

**Pigmentation of the Conjunctiva and its possible Relation to Nutrition** (Vol. XXVII, page 735).

*Dogra, J. R.*

**Radiological Studies of the Alimentary Tract of Normal Monkey (*Macacus sinicus*)** (Vol. XXVII, page 1117).

**Studies on Peptic Ulcer in South India. Part I. Introduction and Clinical Study of 258 cases.** (Vol. XXVIII, page 145).

Studies on Peptic Ulcer in South India. Part II. A Statistical Survey. (Vol. XXVIII, page 481).

Studies on Peptic Ulcer in South India. Part III. Experimental Production of Gastro-duodenal Ulcer. (Vol. XXIX, page 311).

Studies on Peptic Ulcer in South India. Part IV. Incidence of Peptic Ulcer in India with Particular Reference to South India (with 1 Map in text). (Vol. XXIX, page 665).

*Dutt, A. T., Ghosh, S., and Chopra, R. N.*

The Chemical Investigation of the Gum Resin from *Balsamodendron mukul* Hook (Vol. XXX, page 331).

*Dyer, Brian, R.*

Studies of Ground Water Pollution in an Alkaline Alluvium Soil (with 1 Map, 3 Graphs and 1 Diagram in text, and 1 Plate). (Vol. XXIX, page 867).

Sodium Chloride as an Indicator for the Determination of the Flow of Soil Water (Vol. XXIX, page 891).

*Dyer, Brian R., and Bhaskaran, T. R.*

Investigations of Ground-Water Pollution. Part I. Determination of the Direction of the Velocity of Flow of Ground Water (with 7 Graphs in text) (Vol. XXXI, page 231).

Investigations of Ground-Water Pollution. Part II. Soil Characteristics in West Bengal, India, at the Site of Ground-Water Pollution Investigations. (Vol. XXXIII, page 17).

*Dyer, Brian, R., Bhaskaran, T. R., and Chandra Sekar, C.*

Investigations of Ground-Water Pollution. Part III. Ground-Water Pollution in West Bengal, India. (Vol. XXXIII, page 23).

*Fabisch, Walter, and Hamburger, H. J.*

Observations on the Physical Development of Punjabi Boys (with 6 Graphs in text). (Vol. XXIX, page 613).

*Forsyth, W. L.*

The Preparation of a Vaccine against Bacillary Dysentery. (Vol. XXX, page 213).

*Frenkel, J.*

Note on an Intracellular Stage of *Leishmania chameleonis*, Wenyon 1921 (with 2 Text-figures). (Vol. XXIX, page 811).

*Ganguly, S. K., and Ghosh, J. K.*

On the Preparation of Liquor Adrenalinae Hydrochloridi. (Vol. XXXIII, page 135).

*Ganapathi, K.*

Action of Sulphanilamide Derivatives in *Streptococcal* and *Pneumococcal* Infections in Mice. (Vol. XXVII, page 971).

*Ganapathi, K., and Rao, R. Sanjiva.*

The Mode of Action of 'Prontosil'. (Vol. XXVIII, page 327).

*Geddes, Arthur.*

Variability in Rates of Population Change, with Reference to India, 1881 to 1931, and 1941 : Some Statistical Considerations (with 6 Graphs and 1 Map in text). (Vol. XXXI, page 115).

*Ghosh, N. K., and Datta, Roy, B. K.*

On the Estimation of Lactose in Milk. (Vol. XXVII, page 953).

*Ghosh, B. N., and Kundu, N. L.*

The Reaction between *Vipera russellii* Venom and its Antivenene. (Vol. XXVII, page 1121).

*Ghosh, B. N., De, S. S., and Chaudhuri, D. K.*

Separation of the Neurotoxin from the Crude Cobra Venom and Study of the Action of a Number of Reducing Agents on it. (Vol. XXIX, page 367).

*Ghosh, H., and Chakraborty, R. K.*

Chemical Constituents of the Stool of Cholera Patients. (Vol. XXVIII, page 309).

*Ghosh, R., and Mukerji, B.*

Differences in the Rate of Chloral Clearance in Blood in Normal and Liver-damaged Dogs (with 2 graphs in text). (Vol. XXIX, page 639).

*Ghosh, L. M., and Maplestone, P. A.*

An Improved Method of Growing Pure Cultures of Ringworm Fungi (with 1 Plate) (Vol. XXIX, page 691).

*Ghosh, S., Gupta, J. C., and Kahali, B. S.*

Assay of Anthracene Purgatives by the Estimation of the Content of Hydroxymethylantraquinones. Part I. Rhubarb. (Vol. XXXIII, page 129).

*Giri, K. V.*

The Availability of Calcium and Phosphorus in Cereals. (Vol. XXVIII, page 101)

*Giri, K. V., and Shourie, K. L.*

The Protective Action of Tissues of Scorbatic and Normal Guinea-Pigs against the Oxidation of Vitamin C and the Nature of the Protective Mechanism (Vol. XXVII, page 685).

*Giri, K. V., and Naganna, B.*

An Absorption Method for the Estimation of Nicotinic Acid Content of Foodstuffs (Vol. XXIX, page 125).

An Absorption Method for the Estimation of Nicotinic Acid Content of Animal Tissues and Blood. (Vol. XXIX, page 585).

*Gokhale, S. K.*

Blood Urea Clearance in Normal Indians: A Study based on the Examination of 110 Normal Indian Men. (Vol. XXIX, page 627).

*Goyle, Amar Nath and Haviland Minchin, R. L.*

A Note on the Biochemical and Serological Classification of the *Staphylococci* (Vol. XXVII, page 611).

*Greval, S. D. S., and Chandra, S. N.*

Blood Groups of Communities in Calcutta. (Vol. XXVII, page 1109).

*Greval, S. D. S., Chandra, S. N., and Das, B. C.*

On Wassermann Reaction, Part V. The Complement. (Vol. XXVIII, page 257).

*Greval, S. D. S., Chandra, S. N., and Das, B. C.*

Complement-Fixation in Hydatid Disease: Suggestions. (Vol. XXIX, page 203).

*Greval, S. D. S., Chandra, S. N., and Woodhead, L. S. F.*

On Isohaemagglutination: Nomenclature, Titration of Isohaemagglutinins, Need for Revision of Technique of Grouping Blood, etc. (with 2 Plates) (Vol. XXIX, page 231).

*Greval, S. D. S., Das, B. C., and Sen Gupta, P. C.*

Preparation and Use of the Witebsky, Klingenstein and Kuhn (W. K. K.) Antigen-  
(Vol. XXIX, page 527).

*Greval, S. D. S., and Chandra, S. N.*

Important Antigenic Difference between Haemagglutinogens M and N.  
(Vol. XXIX, page 547).

*Greval, S. D. S., Bhattacharji, J. N., and Roy Chowdhury, A. B.*

Isohaemolysis : Reports on Two Isolysins and Associated Considerations  
(Vol. XXXI, page 197).

*Greval, S. D. S., Bhattacharji, J. N., and Das, B. C.*

Determination of Blood Groups from Stains (with 1 Plate). (Vol. XXXI, page 203).

*Greval, S. D. S., and Bhattacharji, J. N.*

The Physical and Immunological Differences between Natural and Reconstituted  
Human Serum. (Vol. XXXII, page 23).

*Greval, S. D. S., Roy Chowdhury, A. B., and Das, B. C.*

Spectra of Haemochromogen and Cyanhaemochromogen. (Vol. XXXIII,  
page 173).

*Greval, K. S., and Kochhar, B. D.*

Chemical Assay of 'Rasuat' and 'Hing' from the Punjab Market. (Vol. XXVIII,  
page 463).

*Luffa acutangula* : The Chemical and Pharma-cological Investigation of *Luffa* Seeds.  
(Vol. XXXI, page 63).

*Gupta, P. C.*

Study of the Size of Heart in Cases of Severe Anaemia occurring in the United  
Provinces of Agra and Oudh in India (with 3 Graphs in text and 1 Plate of 2  
Tele-radiograms). (Vol. XXX, page 129).

*Gupta, J. C., and Kahali, B. S.*

Comparative Pharmacology of the Total Alkaloids of *Rauwolfia serpentina* Benth.  
obtained from Bengal, Bihar and Dehra Dun. (Vol. XXXI, page 215).

General Pharmacology of Umbellatine, a New Alkaloid isolated from *Berberis  
umbellata* Wall. and *Berberis insignis* Hook. f. and its Use in the Treatment  
of Oriental Sore. (Vol. XXXII, page 53).

*Gupta, J. C., Kahali, B. S., and Dutta, A.*

The Hypnotic Effect of a Resin Fraction isolated from Root of *Rauwolfia serpentina*  
Benth. obtained from Dehra Dun. (Vol. XXXII, page 183).

*Hare, K. P.*

Chemical Investigations into Anaemia in Assam. Parts I-VII. (Vol. XXVII,  
page 1041).

*Hayes, W., and Freeman, J. F.*

The Incidence, Type and Bacteriology of Salmonella Infection in the Army in India.  
(Vol. XXXIII, page 177).

*Hynes, M., Ishaw, M., and Morris, T. L.*

Anaemia in Indian Army Recruits. (Vol. XXXIII, page 271).

*Iyengar, N. K.*

Competition of Protein Substrates towards Proteolytic Enzymes. (Vol. XXIX,  
page 655).



*Iyengar, N. K.*

Studies on Trypsin-Kinase from Blood and on Entero-Kinase. (Vol. XXV, page 467).

*Iyengar, N. K., Sehra, K. B., and Mukerji, B.*

A Modified Method for the Determination of 'Prothrombin Time'. (Vol. XXV, page 339).

*Iyengar, N. K.*

Standard for Papain and its Preparations. (Vol. XXXI, page 211).

*Iyengar, N. K., Bose, B. C., and Mukerji, B.*

Vitamin C in Pine Needles. (Vol. XXXII, page 165).

*Iyengar, M. O. T.*

Occurrence of *Wuchereria bancrofti* Infection in a Rural Area. (Vol. XXIX, page 677).

*Job, T. J.*

Food and Feeding Habits of the Glassfishes (*Ambassis* Cav. & Val) and their Bearing on the Biological Control of Guinea-worm and Malaria (with 2 Text-figures) (Vol. XXIX, page 851).

*Kamala Bhagvat.*

Combined Estimation of Thiamin and Nicotinic Acid in Foodstuffs by Chemical Methods (Vol. XXXI, page 145.).

*Kamala Bhagvat, and Sarma, P. S.*

Accumulation of Pyruvic Acid in Rice-Moth Larvae (*Corcyra cephalonica* St.) fed on a Vitamin B-deficient Diet (with 3 Graphs in text). (Vol. XXXI, page 173).

*Kamala Bhagvat and Rao, K. K. P. Narasingu.*

Vitamin C in Germinating Grains. (Vol. XXX, page 493).

Vitamin C Content of Dry Bengal Gram (*Cicer arietinum*), (with two Graphs in text) (Vol. XXX, page 505).

*Kamala Bhagvat, and Devi, P.*

Anti-thiamine Factor in Carp. (Vol. XXXII, page 123).

Inactivation of Thiamine by certain Foodstuffs and Oil Seeds. Part I (Vol. XXXII, page 131).

Inactivation of Thiamine by certain Foodstuffs and Oil Seeds. Part II. (with Graph in text). (Vol. XXXII, page 139).

*Kamala Bhagvat, and Sreeramamurthy, V. V.*

Liberation of Tyrosine, Tryptophane, Cystine and Arginine from Protein (Vol. XXXII, page 145).

*Khanolkar, V. R.*

The Susceptibility of Indians to Cancer. (Vol. XXXIII, page 299).

*Karunakaran, C. O., and Nair, P. Krishnan*

The Treatment of Scrotal Eczema, Stomatitis and allied Conditions caused by Vitamin Deficiency. (Vol. XXVIII, page 371).

*Khorana, M. L., Sarma, M. L., and Giri, K. V.*

Investigations on the Food Value of Fish and other Marine Products. Part I The Antipellagra Vitamin (Nicotinic Acid). (Vol. XXX, page 315).

*Khcrana, M. L., Sarma, M. L., Seshagiri Rao, P., and Giri, K. V.*

Investigations on the Food Value of Fish and other Marine Products. Part II. The Protein and Mineral Contents. (Vol. XXXI, page 25).

*Kirwan, E. O. G., Sen, K., and Biswas, R. B.*

Nutrition and its Bearing on Preventable Blindness and Eye Diseases in Bengal. Preliminary Report. (Vol. XXIX, page 119).

*Kirwan, E. O. G., Sen, K., and Bose, N.*

Nutrition and its Bearing on Preventable Blindness and Eye Diseases in Bengal. (Vol. XXXI, page 49).

Vitamin B2 Deficiency as a Cause of Eye Diseases in Bengal. (Vol. XXXII, page 109).

*Kochhar, B. D.*

The Quantitative Estimation of Nicotinic Acid in Blood and other body Fluids. (Vol. XXVIII, page 385).

Nicotinic Acid in Blood. (Vol. XXIX, page 133).

Nicotinic Acid in Blood and in Urine. (Vol. XXIX, page 341).

*Krishnan, B. T.*

Inhibitory Agents of Uterine Motility. (Vol. XXVIII, page 241).

*Krishnan, K. V., and Narayanan, E. K.*

Preparation of Peptone for Bacteriological Work (with 2 text-figures). (Vol. XXIX, page 541).

*Krishnan, K. N.*

Influence of the Anterior Lobe of the Pituitary Gland on Calcium Metabolism. Part I. Calcium Balance. (Vol. XXX, page 589).

*Krishnamurty, P. V., and Giri, K. V.*

Further Studies on the Influence of Pyrophosphate on the Oxidation of Vitamin C (with 2 Graphs in text). (Vol. XXIX, page 71).

*Kutumbiah, P.*

A Study of the Lesions in Rheumatic Heart Disease in South India. (Vol. XXVII, page 631).

*Kulkarni, R. N.*

Quantitative Estimation of common Trihalogen Volatile Anaesthetics in Blood and Tissues of Animals (with 3 Graphs in text). (Vol. XXXII, page 189).

*Lahiri, D. C.*

Studies on Relationship of Flocculation Value of Tetanus-Formol-Toxoid determined by Ramon's Method and its Antigenic Value determined on Experimental Animals. (Vol. XXVII, page 651).

Comparative Study of Human Immunization with Two and three Doses of Tetanus Toxoid. (Vol. XXX, page 481).

A Mouse-Protection Test for the Assay of Tetanus Toxoid. (Vol. XXX, page 371).

*Lahiri, M. N.*

On the Foetal Infection by *L. icterohemorrhagiae* in a Rat. (Vol. XXXIX, page 685).

*Lahari, N. L., Venkataraman, P. R., Anantkrishnan, C. P., and De, N. N.*

Partition of Phosphorus in Mammalian Brains. (Vol. XXX, page 619).

*Lal, R. B., Mukerji, S. P., Das Gupta, A. C., and Chatterji, S. R.*

Investigations into the Epidemiology of Epidemic Dropsy. Part IX. Quantitative Aspects of the Problem of Toxicity of Mustard Oil. (Vol. XXVII, p 163).

*Lal, R. B., and Das Gupta, A. C.*

Investigations into the Epidemiology of Epidemic Dropsy. Part X. A Note on an Outbreak of Epidemic Dropsy associated with the Use of Mustard Oil prepared from Seeds adulterated with Seeds of *Argemone mexicana* (with 1 Map in text and 1 Plate). (Vol. XXIX, page 157).

*Lal, R. B., Chatterji, S. R., Agarwala, S. P., and Das Gupta, A. C.*

Investigations into the Epidemiology of Epidemic Dropsy. Part XI. Biological Test of Specific Toxin in Samples of Oil (with 11 Graphs in text and 3 Plates). (Vol. XXIX, page 167).

*Lal, R. B., Raja, K. C. K. E., and Satya Swaroop.*

Statistical Inquiry into the Epidemiology of Cholera in Bengal. Part I. A General Review of the Epidemiological Features of cholera in Different Parts of Bengal (with 4 Maps in text). (Vol. XXIX, page 425).

*Lal, R. B., Raja, K. C. K. E., Satya Swaroop, and Basak, K. C.*

Statistical Inquiry into the Epidemiology of Cholera in Bengal. Part II. Formations of Homogeneous Cholera Districts (with 8 Maps in text). (Vol. XXIX, page 448).

*Lal, R. B., Das Gupta, A. C., Agarwala, S. P., and Adak, B.*

Investigations into the Epidemiology of Epidemic Dropsy. Part X. Application of Biological Test to Modified Argemone Oil and its Derivatives (with 16 Graphs in text). (Vol. XXIX, page 813).

*Lal, R. B., Das Gupta, A. C., Mukerji, S. P., and Adak, B.*

Investigations into the Epidemiology of Epidemic Dropsy. Part XIV. Feeding Experiments on Human Subjects to test the Toxicity of some of the Derivatives and Modifications of Argemone Oil. (Vol. XXIX, page 839).

*Lal, R. B., and Das Gupta, A. C.*

Investigations into the Epidemiology of Epidemic Dropsy. Part XV. Incidence of Epidemic Dropsy in a particular Season (with 4 Graphs in text). (Vol. XXX, page 145).

*Lucius Nicholls, and Ananda Nimalasuriya.*

The Treatment of Eye, Skin, and Mouth Lesions due to Vitamin Deficiency. (Vol. XXVII, page 705).

*Lucas, R. B.*

Isolation of A Strain of *Rickettsia orientalis* from Cases of XK Typhus in Ceylon. (Vol. XXXI, page 223).

*Macdonald, A. J., and Bose, S.*

The Growth-promoting Value of Eggs (with 4 Graphs in text). (Vol. XXX, page 285).

The Growth-Promoting Value of Eggs. Part. II. Supplementary Value of Eggs and Pulses in a Bengali Diet. (Vol. XXXIII, page 77).

*Majumdar, B. N.*

The Vitamin A Content of some Indian Fish-Liver Oils. (Vol. XXIX, page 95).

*Majumdar, D. N., and Das Gupta, C. R.*

Haematological Studies in *Silenus* (*Macacus rhesus*), Part I. The Blood Picture of the Normal Monkey (with 8 Graphs in text). (Vol. XXXII, page 101).

**Haematological Studies in *Silenus (macacus) rhesus*. Part II. Nature of Malarial Anaemia in Monkeys.** (Vol. XXXIII, page 161).

*Malik, K. S., and Pasricha, C. I.*

**The Blood in Cholera. Part I. Technical Methods.** (Vol. XXVIII, page 291).

*Mangalik V. S., Goel, M. P., and Mangalik, Hemlata.*

**Studies in Gastric Acidity in Indians with Alcohol Test-Meal (with 8 Graphs in text).** (Vol. XXX, page 351).

*Maplestone, P. A., and Bhaduri, N. V.*

**The Helminth Parasites of Dogs in Calcutta and their Bearing on Human Parasitology.** (Vol. XXVIII, page 595).

*Maplestone, P. A., and Dey, N. C.*

**Further Laboratory Tests on the Fungistatic and Fungicidal Effects of various Substances.** (Vol. XXIX, page 23).

*Malshall, Day, C. D., and Shourie, K. L.*

**The Effect of Vitamin C on Gingival and Periodontal Disease in Indian Children.** (Vol. XXXI, page 153).

*Mason, Eleanor D.*

**Daily Measurements of Basal Metabolism, Body Temperature and Pulse Rate during a Journey to the Tropics (with 1 Graph in text).** (Vol. XXXII, page 27).

*Mason, Eleanor D., Theophilus, Florence, and Frimodt-Møller, J.*

**The Influence of Butter Fat in the Absence or Presence of Casein on Growth in Young Rats on a Rice Diet.** (Vol. XXXIII, page 219).

*McDonald, S.*

**A Method for the Demonstration of Negri Bodies.** (Vol. XXXII, page 205).

*Menon, T. Bhaskara, and Ramamurti, B.*

**Preservation *in vitro* of *Microfilaria bancrofti* and a Study of the Mechanism of ex-Sheathing.** (Vol. XXVIII, page 615).

*Menon, T. Bhaskara, and Ramamurti, B.*

**The Behaviour of the Infective Larvae of *Wuchereria bancrofti* with Special Reference to their Mode of Escape and Penetration of Skin (with 1 Plate).** (Vol. XXIX, page 393).

*Menon, K. P.*

**Staphylococci in Vaccine Lymph.** (Vol. XXIX, page 259).

*Mitra, K.*

**Dietary and Nutrition Survey at Jamshedpur, an Industrial Town in Bihar.** (Vol. XXVII, page 887).

**Investigation into the Dietary and physique of Aborigines in Santal Parganas, a District of Bihar.** (Vol. XXVIII, page 117).

**Dietary and Physique of Mining Population in Jharia Coal Fields (Bihar).** (Vol. XXIX, page 143).

**Observations on the Diet and Nutritional State of an Aboriginal (Hos) Tribe.** (Vol. XXX, page 91).

*Mitra, K., and Mitra, H. C.*

**Estimation of Food Value by Chemical Methods of Another Series of Edibles consumed in Bihar.** (Vol. XXX, page 229).

**Estimation of the Proximate Principles of Food in a few Edibles by Chemical Method** (Vol. XXIX, page 315).